

# Compact and strong, transport in one

## LTR 1150

Telescopic crawler crane  
Grue télescopique sur chenilles

# LIEBHERR

Mobile and crawler cranes



170 USt



171 ft



249 ft



292 ft

# NEW



# Technical data

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### Description of symbols

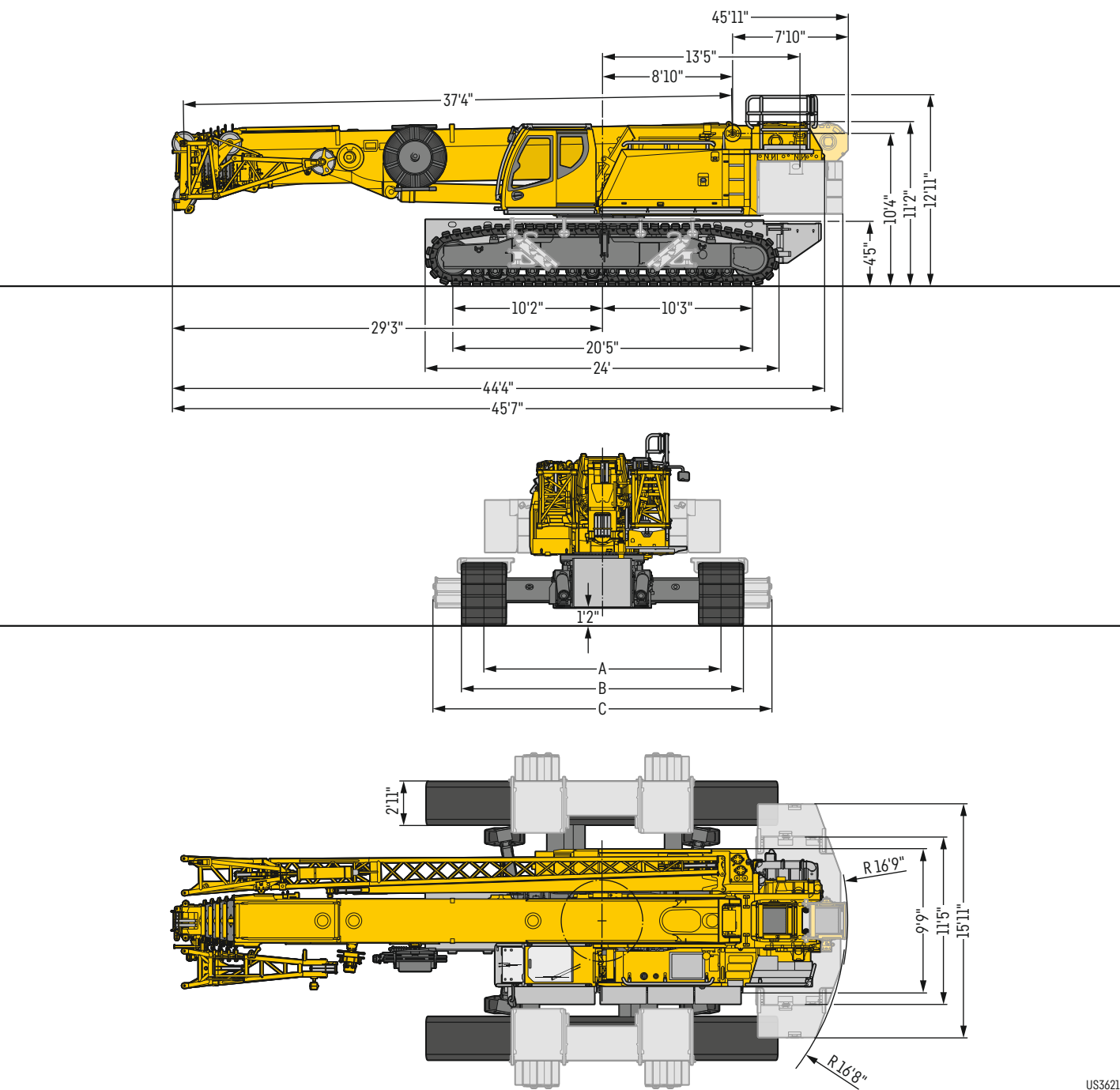
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# Dimensions

## Encombrement



US3621

### Dimensions - Encombrement

|   | 11'6" | 16'5" | 19'   |
|---|-------|-------|-------|
| A | 8'6"  | 13'5" | 16'1" |
| B | 11'6" | 16'5" | 19'   |
| C | 15'8" | 20'7" | 23'3" |

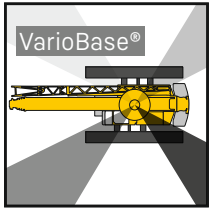


# LTR 1150

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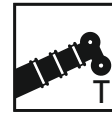






**VarioBase lifting capacity calculation:**  
**The best possible lifting capacity is calculated in real time by the LICCON2 crane control based on the track width and slewing angle.**

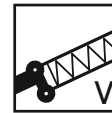
VarioBase Calcul de la capacité de charge :  
 La commande de grue LICCON2 permet de déterminer en temps réel la capacité de charge optimale en fonction de la largeur de la voie et de l'angle de rotation.



171 ft



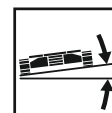
35 ft – 62 ft



3 x 23 ft



9 ft 6 in



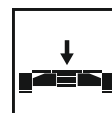
max. 4°



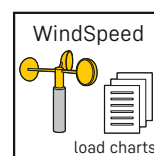
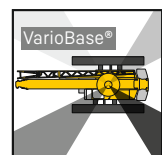
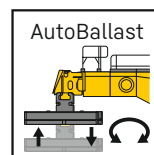
218 kW (296 h.p.)



90,400 lb



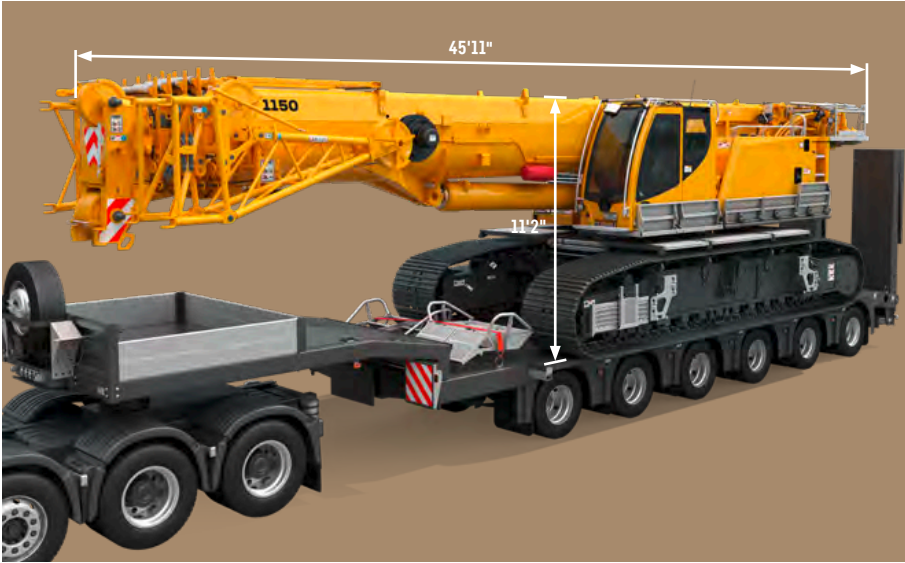
48,500 lb



load charts

# Transport

## Transport



45'11"

11'2"

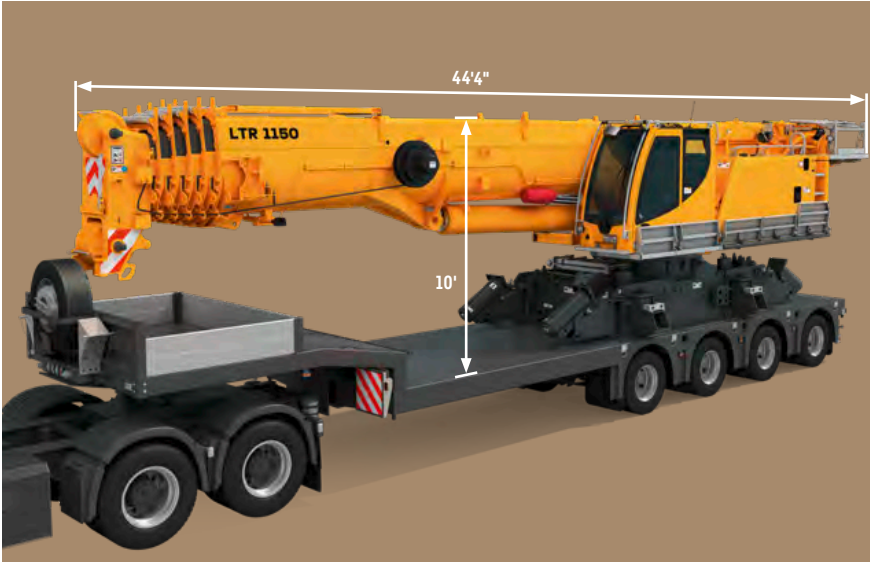
**with crawlers**  
avec chenilles



11 ft  
6 in



≈ 132,300 lb



44'4"

10'

**without crawlers (option)**  
sans chenilles (option)



9 ft  
10 in

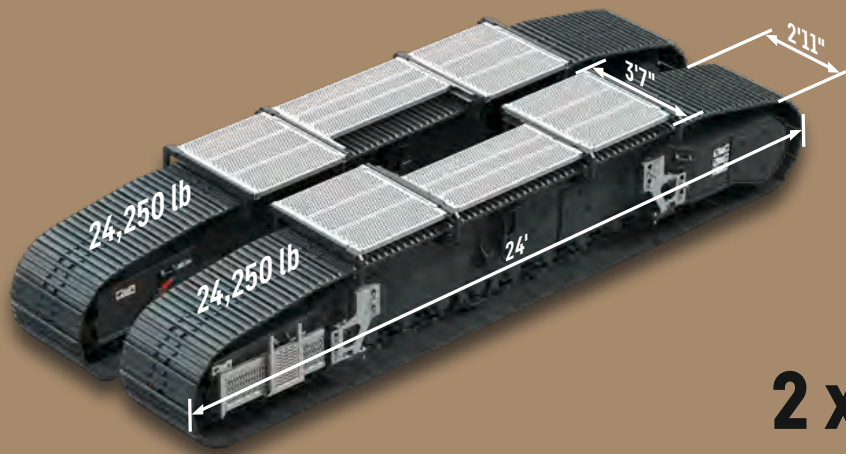


≈ 83,800 lb

# Transport

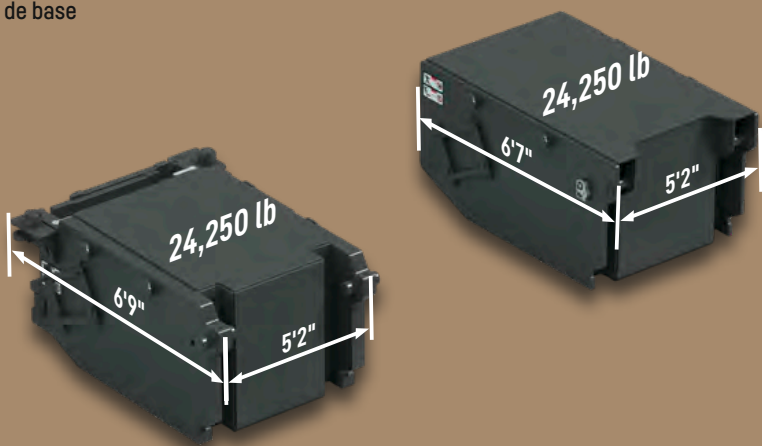
## Transport

Crawler carrier  
Longerons



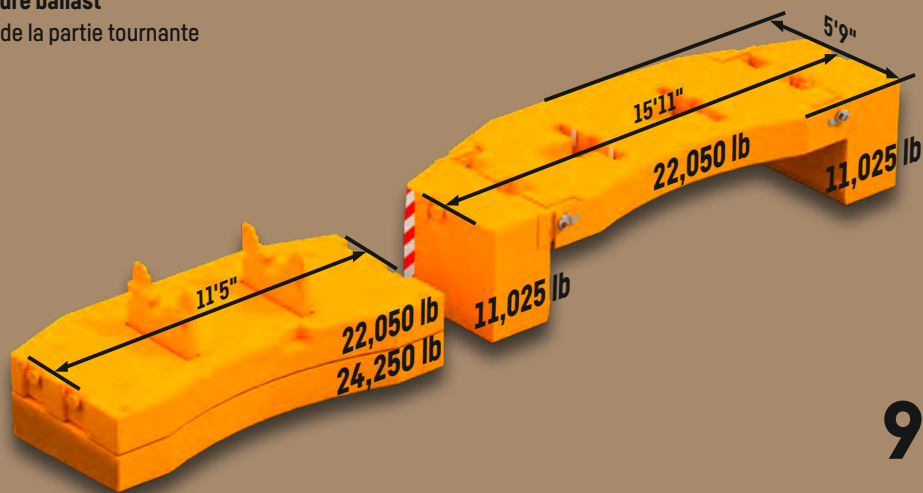
2 x 24,250 lb

Center counterweight  
Contrepoids de base



2 x 24,250 lb

Superstructure ballast  
Contrepoids de la partie tournante



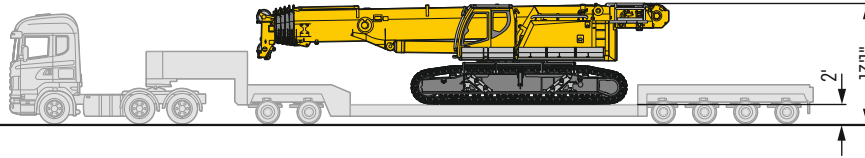
90,400 lb



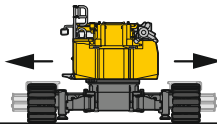
# Assembly – Version A

## Montage – Variante A

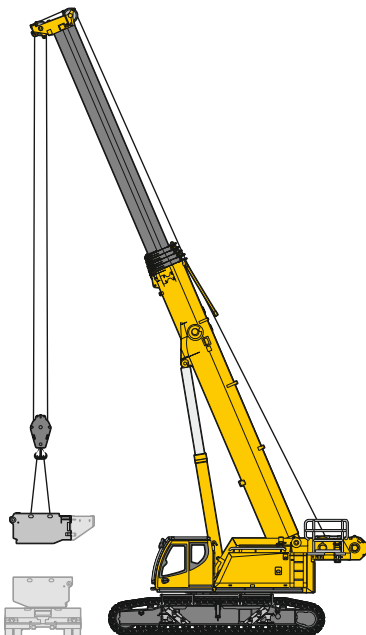
1



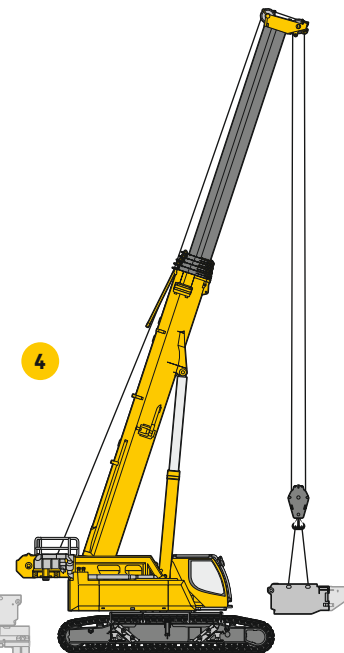
2



3



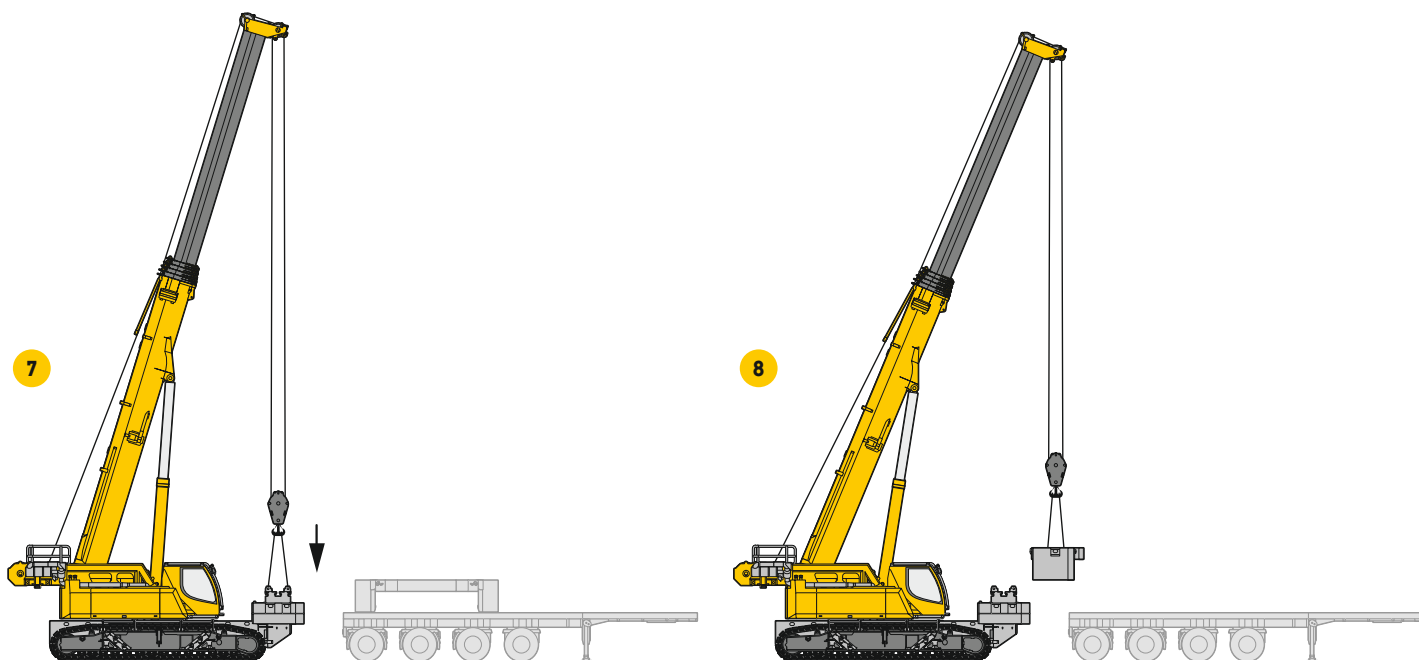
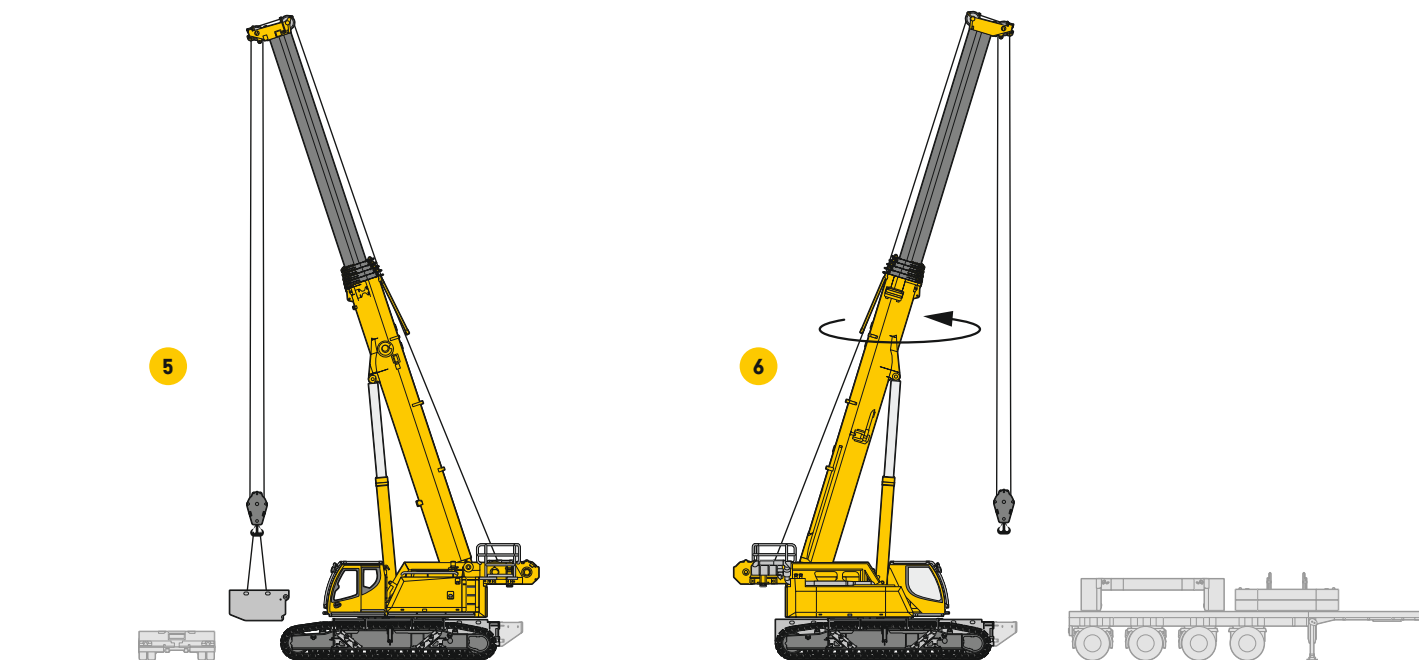
4



**Assemble the central ballast 2x 24,250 lb / Extend the support frame for the superstructure ballast**  
**Montage du lest central 2 x 24,250 lb / extension de la réception du lest à plate-forme tournante**

# Assembly – Version A

## Montage – Variante A

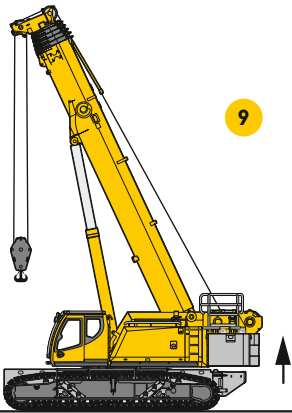


Assemble superstructure ballast  
Montage du lest à plate-forme

US3642

# Assembly – Version A

## Montage – Variante A

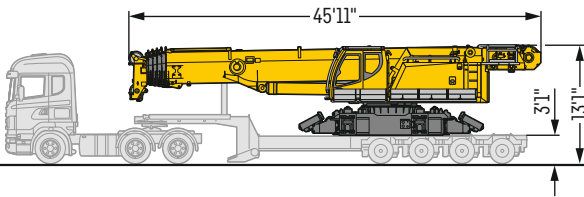


US3642

# Assembly – Version B

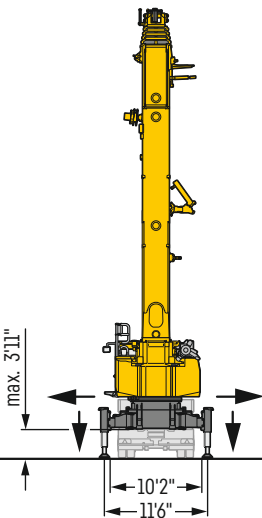
## Montage – Variante B

1



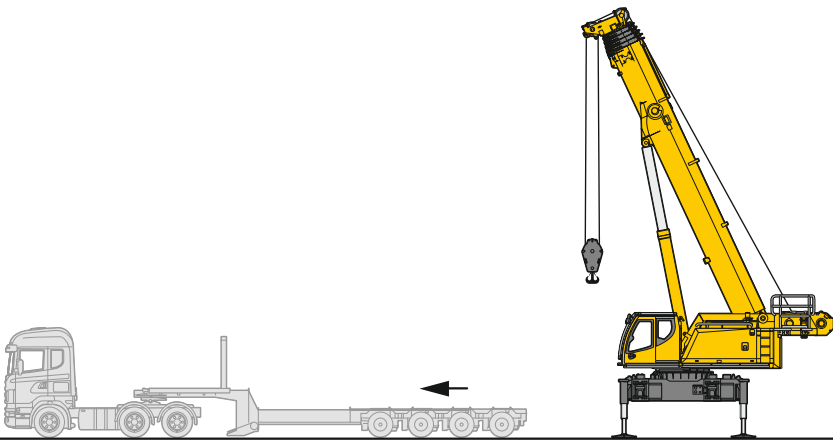
Transport width 9 ft 10 in / Transport weight < 88,200 lb  
Largeur de transport 9 ft 10 in / poids de transport < 88,200 lb

2



Extend the 4 jack-up cylinders\* / Support the crane  
Extension des 4 vérins Jack-Up\* / stabilisation de la grue

3

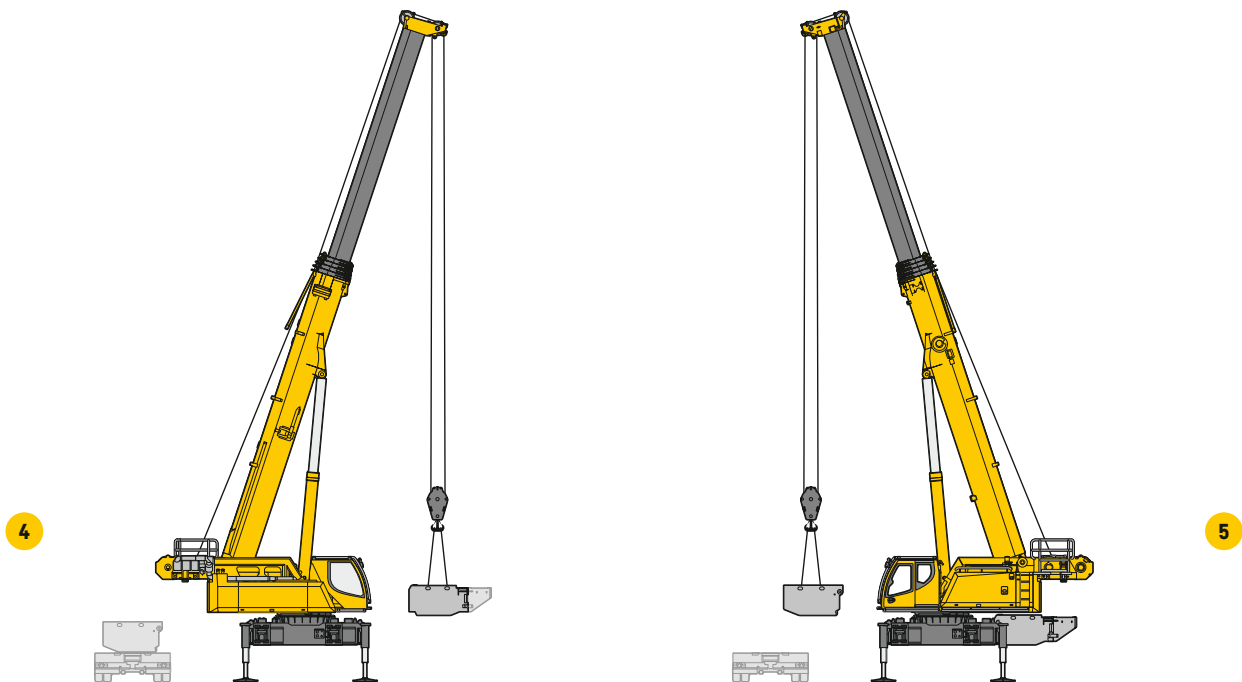


\* Optional / option

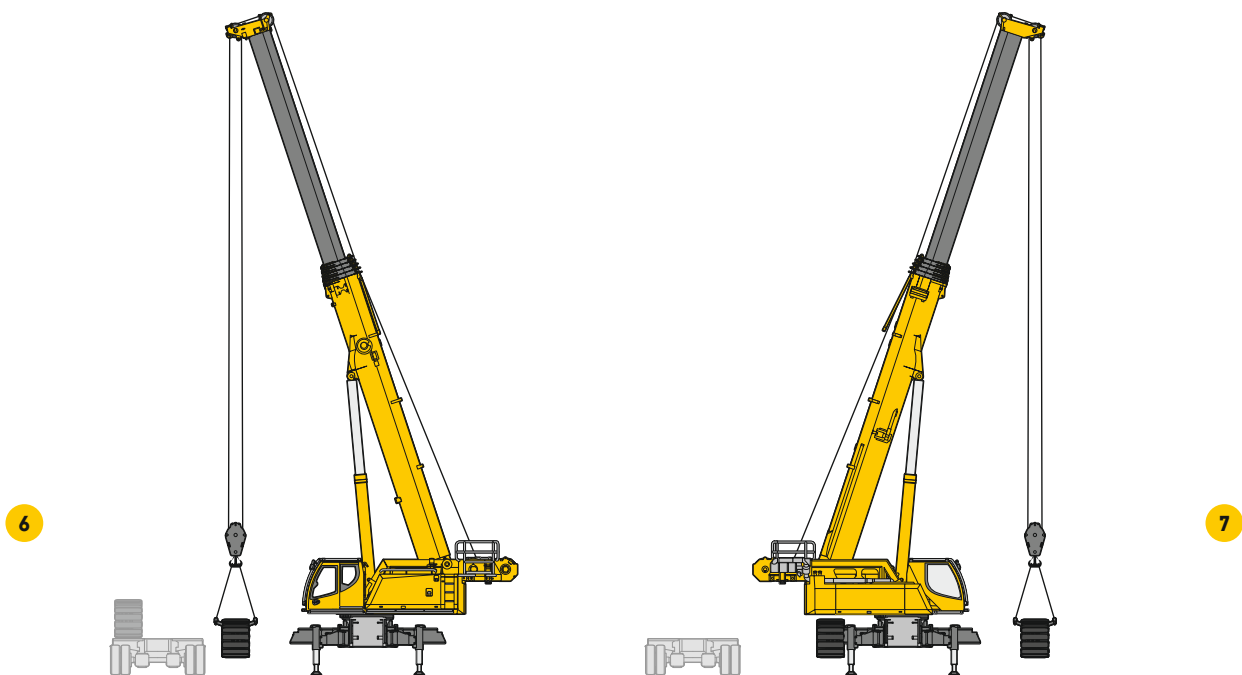


# Assembly – Version B

## Montage – Variante B



**Assemble the central ballast 2x 24,250 lb / Extend the support frame for the superstructure ballast**  
Montage du lest central 2 x 24,250 lb / extension de la réception du lest à plate-forme tournante



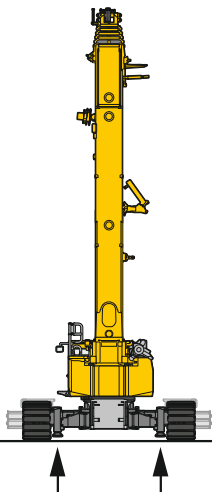
**Extend the crawler tracks / Assemble the crawler tracks**  
Sortir les supports transversaux / montage des chenilles

US3625

# Assembly – Version B

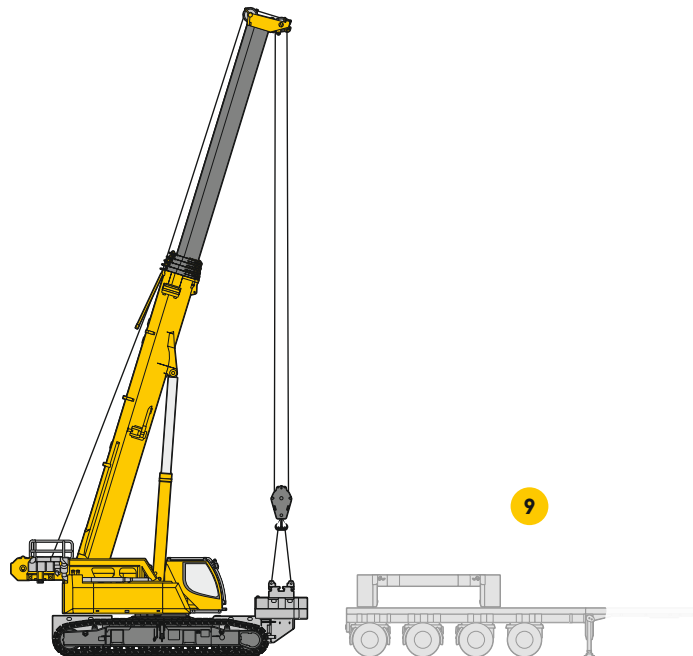
## Montage – Variante B

8



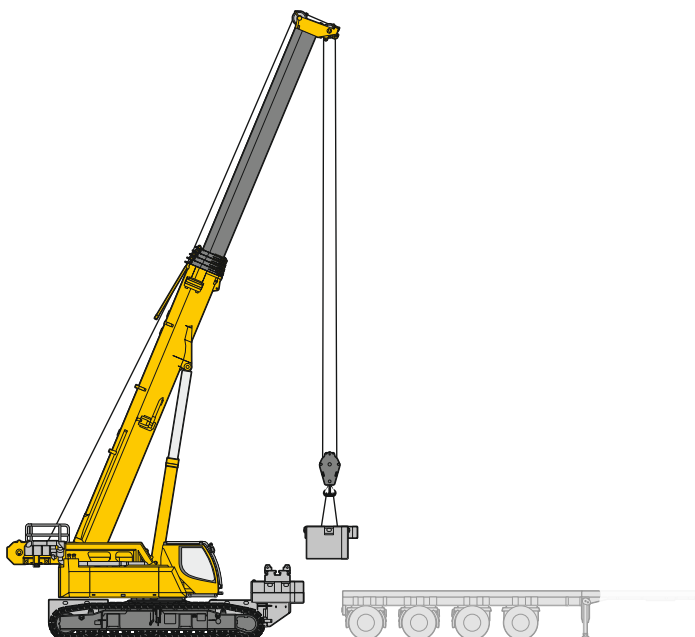
Retract the 4 jack-up cylinders / Raise into working position  
Rétraction des 4 vérins Jack-Up / les relever en position de travail

9

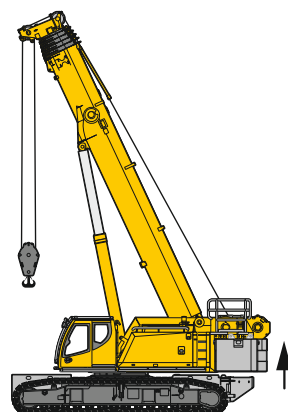


Assemble superstructure ballast  
Montage du lest à plate-forme

10



11



Assemble superstructure ballast  
Montage du lest à plate-forme

# Crane operation with side inclination

## Utilisation de la grue en inclinaison latérale



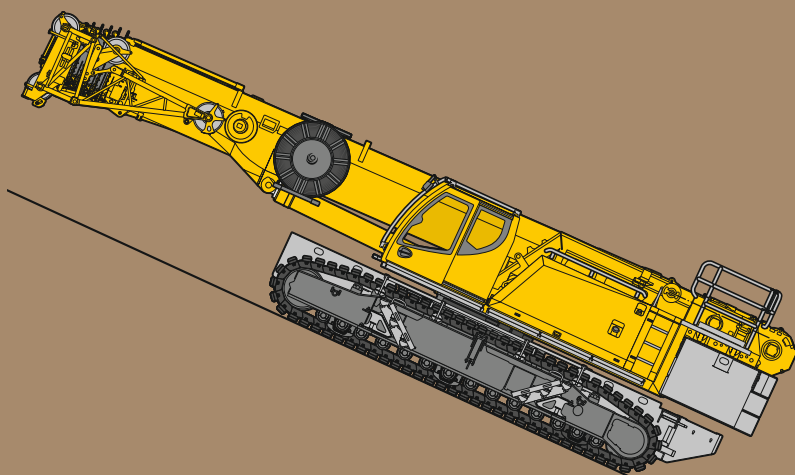
Additional operational possibilities are offered by the load charts programmed as standard for working with main boom and assembly jib on surfaces with an inclination up to 4°.

Les possibilités d'application de la grue sont étendues grâce aux tableaux des charges programmés de série permettant d'utiliser la grue avec une inclinaison latérale pouvant aller jusqu'à 4°.

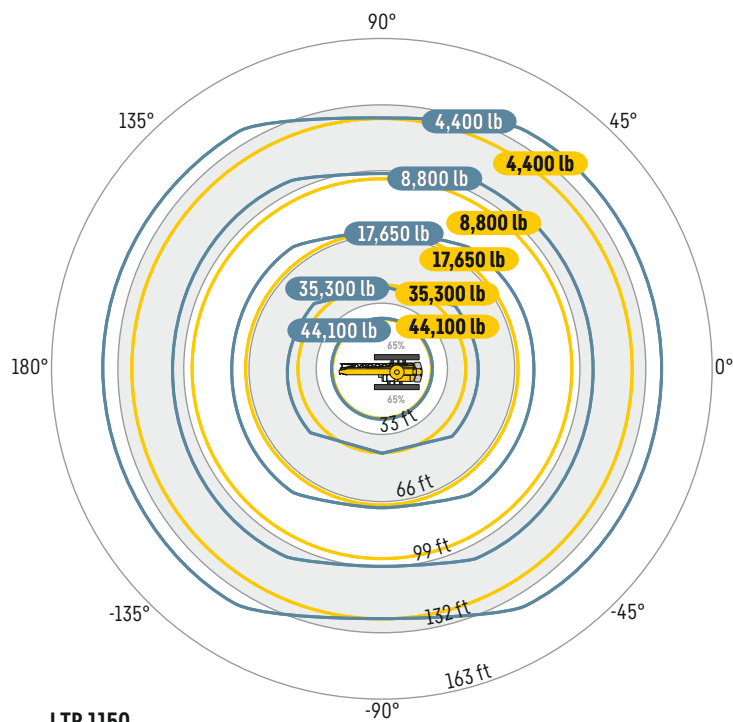
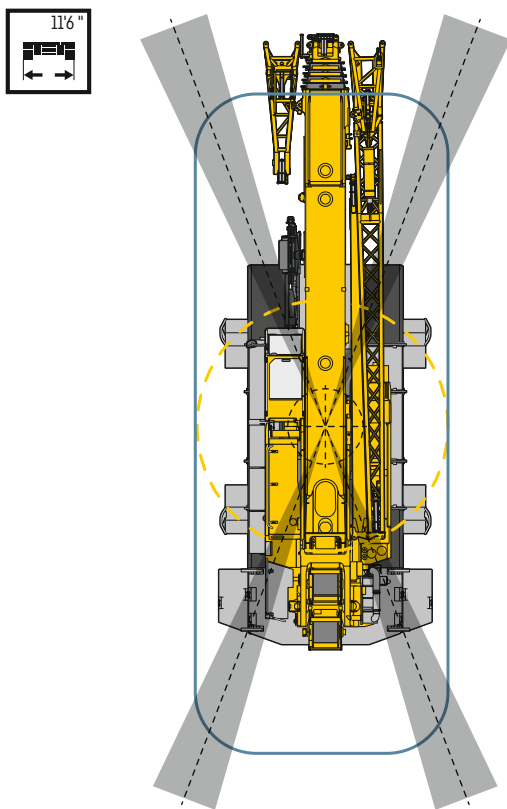
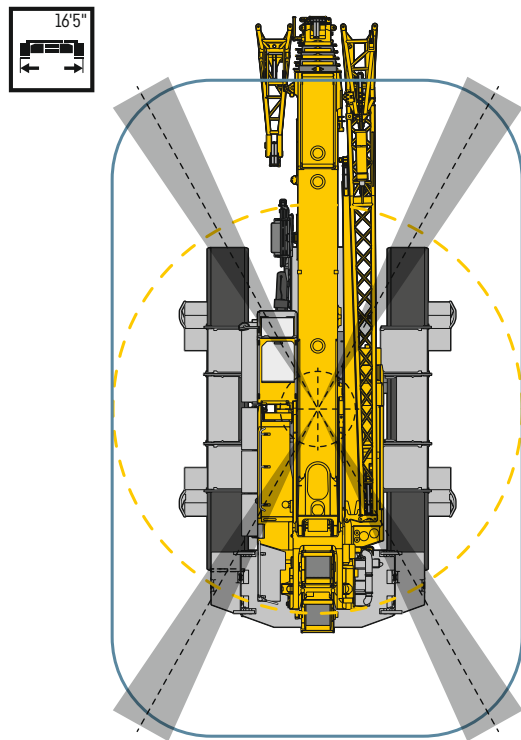
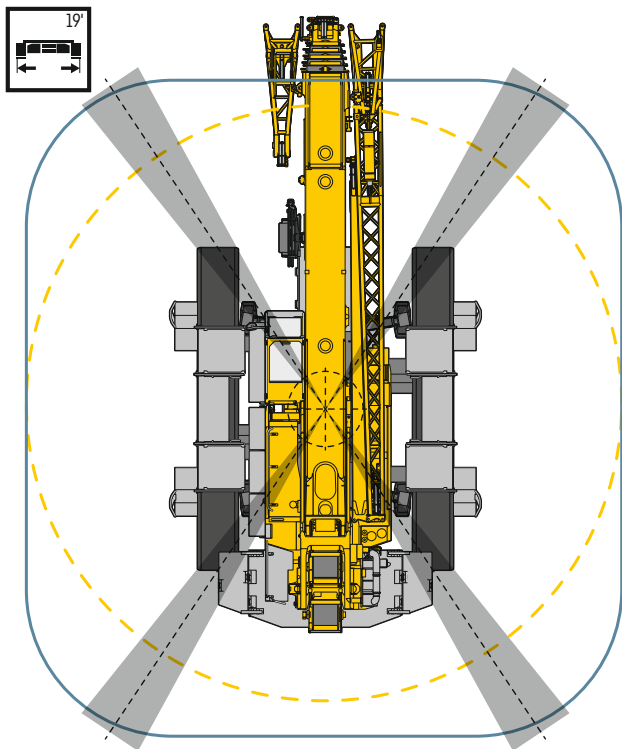
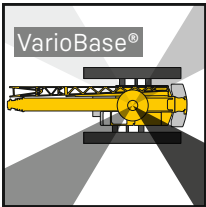
**46 %**

**Gradeability**

Pente max. gravie



S3697



LTR 1150



**Working range 360° table** - Zone de travail 360° tableau  
**VarioBase working range** - Zone de travail VarioBase

S3739

# Crane data

## Dates de la grue

|                                                                                   |                                                                                                                                                                                                                                  |                            |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
|  | <b>Total driving force</b><br>Puissance propulsive totale                                                                                                                                                                        | 175,350 lb                 |
|  | <b>Total weight with 90,400 lb counterweight, 48,500 lb central ballast, and 3-sheave hook block</b><br>Poids total avec contrepoids de 90,400 lb, lest central de 48,500 lb, et moufle à crochet à 3 poulies                    | ~271,200 lb                |
|  | <b>Average ground pressure without jack-up cylinders at ~271,200 lb total weight and with 2 ft 11 in track pads</b><br>Pression au sol moyenne sans vérin Jack-up pour un poids total de ~271,200 lb et des tuiles de 2 ft 11 in | 15.93 lb/inch <sup>2</sup> |
|  | <b>Travel speeds</b> · Vitesses de translation                                                                                                                                                                                   | 0 – 1.4 mph                |
|  | <b>Max. permissible gradability</b> · Pente admissible maxi.                                                                                                                                                                     | 46 %                       |

## Hook block · Moufles à crochet

|  |  |  |  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 257,700 lb                                                                          | 7                                                                                   | 14                                                                                  | 2,750 lb                                                                            |
| 189,600 lb                                                                          | 5                                                                                   | 10                                                                                  | 2,100 lb / 1650 lb                                                                  |
| 135,800 lb                                                                          | 3                                                                                   | 7                                                                                   | 1,550 lb / 1,100 lb                                                                 |
| 60,000 lb                                                                           | 1                                                                                   | 3                                                                                   | 1,000 lb                                                                            |
| 23,300 lb                                                                           | –                                                                                   | 1                                                                                   | 770 lb                                                                              |

## Crane superstructure · Partie tournante

|                                                                                     |                     |  |  |  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  | 0 – 413 ft/min single line · au brin simple                                                            | 21 mm                                                                               | 722 ft                                                                              | 20,590 lb                                                                             |
|  | 0 – 413 ft/min single line · au brin simple                                                            | 21 mm                                                                               | 722 ft                                                                              | 20,590 lb                                                                             |
|  | 0 – 1.38 rpm                                                                                           |                                                                                     |                                                                                     |                                                                                       |
|  | approx. 60 seconds to reach 82° boom angle<br>env. 60 s jusqu'à 82°                                    |                                                                                     |                                                                                     |                                                                                       |
|  | approx. 270 seconds for boom extension from 37 ft – 171 ft<br>env. 270 s pour passer de 37 ft – 171 ft |                                                                                     |                                                                                     |                                                                                       |



# Boom/jib combinations

## Configurations de flèche

|              |                                                                                                                  |
|--------------|------------------------------------------------------------------------------------------------------------------|
| <b>T</b>     | <b>Telescopic boom</b> • Flèche télescopique                                                                     |
| <b>K/NZK</b> | <b>Mechanically/hydraulically adjustable folding jib</b> • Pointe pliante réglable mecaniquement/hydrauliquement |
| <b>V</b>     | <b>Telescopic boom extension</b> • Rallonge de flèche télescopique                                               |
| <b>K</b>     | <b>Assembly jib</b> • Fléchette de montage                                                                       |

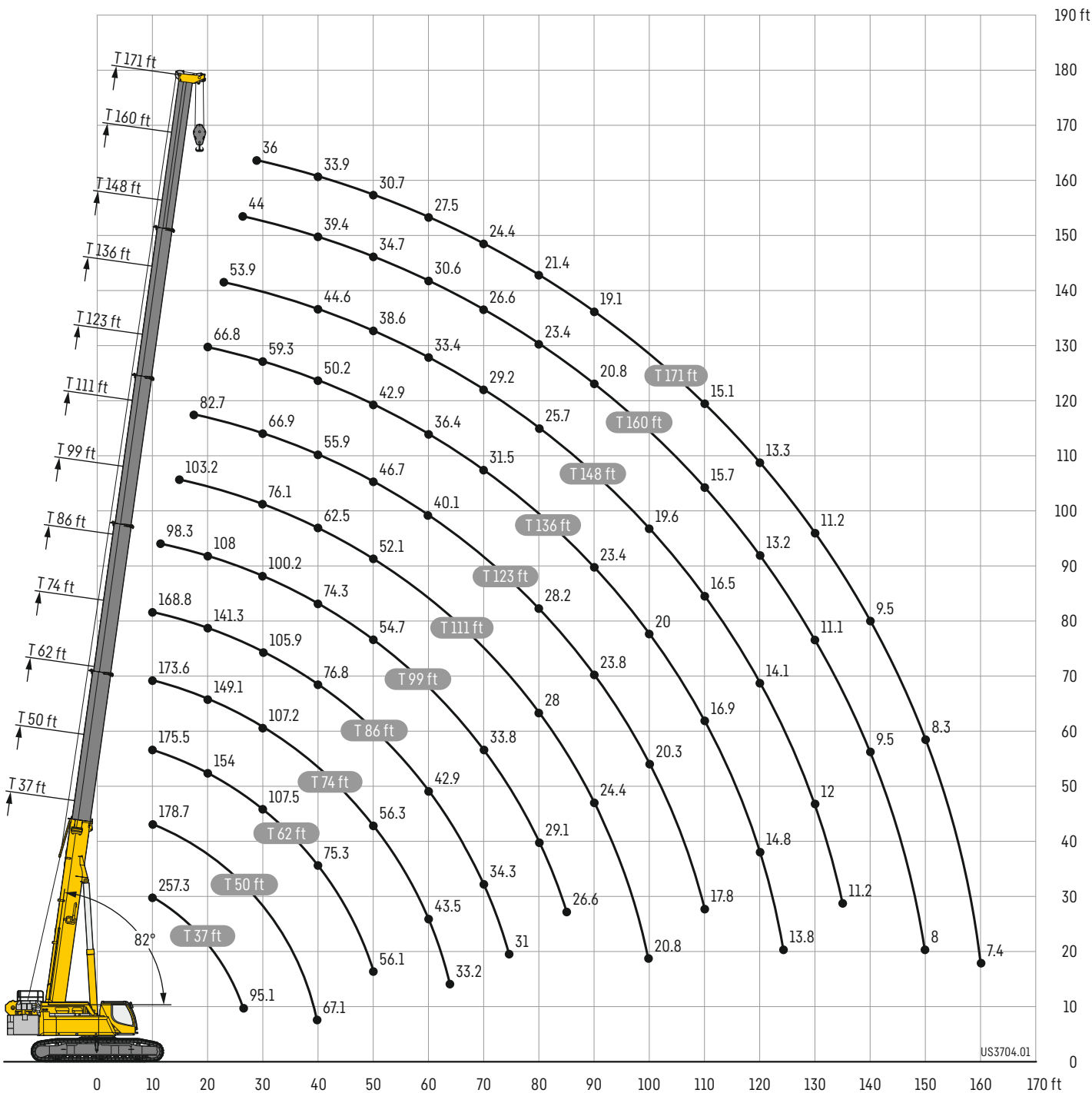


S3624.02

# Lifting heights

## Hauteurs de levage

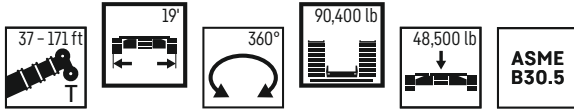
T



# Lifting capacities

## Forces de levage

T



|     | 37 ft |       | 50 ft | 62 ft | 74 ft | 86 ft | 99 ft | 111 ft | 123 ft | 136 ft | 148 ft | 160 ft | 171 ft |     |
|-----|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-----|
|     | *     |       |       |       |       |       |       |        |        |        |        |        |        |     |
| 10  | 257.3 | 189.6 | 178.7 | 175.5 | 173.6 | 168.8 |       |        |        |        |        |        |        | 10  |
| 11  | 250.3 | 189.6 | 180.2 | 176.3 | 174.2 | 165.6 | 98.3  |        |        |        |        |        |        | 11  |
| 12  | 229   | 189.6 | 181.9 | 177.2 | 174.8 | 162.5 | 128.9 |        |        |        |        |        |        | 12  |
| 13  | 219.9 | 189.6 | 183.5 | 178.3 | 175.6 | 158.7 | 126.5 |        |        |        |        |        |        | 13  |
| 14  | 210.6 | 189.6 | 185.1 | 179.5 | 176.1 | 154.4 | 123.9 | 103.2  |        |        |        |        |        | 14  |
| 15  | 200.6 | 188.7 | 184.2 | 179.7 | 174.8 | 150.2 | 121.2 | 101.7  |        |        |        |        |        | 15  |
| 16  | 190.5 | 180.9 | 180   | 177.7 | 168.8 | 146   | 118.4 | 99.8   |        |        |        |        |        | 16  |
| 17  | 181.1 | 173.2 | 173.9 | 172.3 | 163.5 | 141.8 | 115.6 | 98.2   | 82.7   |        |        |        |        | 17  |
| 18  | 172.5 | 166.1 | 166.7 | 166.7 | 158.5 | 140.3 | 113   | 97.1   | 81.9   |        |        |        |        | 18  |
| 19  | 164.9 | 159.7 | 160   | 159.9 | 153.8 | 140.9 | 110.5 | 96     | 80.8   |        |        |        |        | 19  |
| 20  | 157.9 | 153.8 | 154.1 | 154   | 149.1 | 141.3 | 108   | 94.7   | 79.6   | 66.8   |        |        |        | 20  |
| 22  | 145.1 | 142.7 | 143.8 | 143.2 | 141.1 | 136.9 | 103.4 | 90.7   | 77.5   | 65.7   |        |        |        | 22  |
| 24  | 134.3 | 133.3 | 134.4 | 134.8 | 133.6 | 130   | 103.2 | 87     | 74.8   | 64.2   | 53.9   |        |        | 24  |
| 26  | 120.5 | 120.8 | 125.1 | 125.5 | 125.2 | 122.9 | 103.9 | 83.1   | 72.2   | 62.6   | 53     | 44     |        | 26  |
| 28  | 95.1  | 95.3  | 115.4 | 116.2 | 115.7 | 115   | 102.7 | 79.5   | 69.4   | 61.1   | 52     | 43.6   | 36     | 28  |
| 30  |       |       | 106.9 | 107.5 | 107.2 | 105.9 | 100.2 | 76.1   | 66.9   | 59.3   | 51.1   | 43.1   | 35.8   | 30  |
| 32  |       |       | 99.4  | 100.1 | 99.9  | 98    | 96.8  | 73.1   | 64.6   | 57.3   | 50     | 42.5   | 35.6   | 32  |
| 34  |       |       | 92.9  | 93.6  | 93.2  | 93.5  | 90.2  | 70.5   | 62.1   | 55.5   | 48.6   | 42     | 35.2   | 34  |
| 36  |       |       | 86.9  | 87.6  | 87.2  | 88.7  | 84.4  | 67.6   | 59.8   | 53.7   | 47.2   | 41.2   | 34.8   | 36  |
| 38  |       |       | 80.3  | 81.2  | 81    | 82.8  | 79.2  | 65     | 57.8   | 51.9   | 45.9   | 40.4   | 34.4   | 38  |
| 40  |       |       | 67.1  | 75.3  | 77.3  | 76.8  | 74.3  | 62.5   | 55.9   | 50.2   | 44.6   | 39.4   | 33.9   | 40  |
| 45  |       |       |       | 64.3  | 65.4  | 64.9  | 63.7  | 56.6   | 51.1   | 46.4   | 41.2   | 37     | 32.4   | 45  |
| 50  |       |       |       | 56.1  | 56.3  | 55.8  | 54.7  | 52.1   | 46.7   | 42.9   | 38.6   | 34.7   | 30.7   | 50  |
| 55  |       |       |       |       | 49.2  | 48.6  | 47.5  | 47.6   | 43     | 39.4   | 36     | 32.6   | 29.1   | 55  |
| 60  |       |       |       |       | 43.5  | 42.9  | 41.8  | 42.1   | 40.1   | 36.4   | 33.4   | 30.6   | 27.5   | 60  |
| 65  |       |       |       |       | 33.2  | 38.2  | 37.7  | 37.8   | 37.4   | 33.8   | 31.2   | 28.5   | 25.9   | 65  |
| 70  |       |       |       |       |       | 34.3  | 33.8  | 34.3   | 33.9   | 31.5   | 29.2   | 26.6   | 24.4   | 70  |
| 75  |       |       |       |       |       | 31    | 31.5  | 30.9   | 31.1   | 29.5   | 27.4   | 24.9   | 22.8   | 75  |
| 80  |       |       |       |       |       |       | 29.1  | 28     | 28.2   | 27.6   | 25.7   | 23.4   | 21.4   | 80  |
| 85  |       |       |       |       |       |       | 26.6  | 26     | 25.7   | 25.7   | 24.1   | 22.1   | 20.2   | 85  |
| 90  |       |       |       |       |       |       |       | 24.4   | 23.8   | 23.4   | 22.7   | 20.8   | 19.1   | 90  |
| 95  |       |       |       |       |       |       |       | 22.5   | 21.9   | 21.8   | 21     | 19.5   | 18     | 95  |
| 100 |       |       |       |       |       |       |       | 20.8   | 20.3   | 20     | 19.6   | 18.4   | 17     | 100 |
| 105 |       |       |       |       |       |       |       |        | 18.8   | 18.3   | 18     | 17.1   | 16     | 105 |
| 110 |       |       |       |       |       |       |       |        | 17.8   | 16.9   | 16.5   | 15.7   | 15.1   | 110 |
| 115 |       |       |       |       |       |       |       |        |        | 15.7   | 15.2   | 14.4   | 14.3   | 115 |
| 120 |       |       |       |       |       |       |       |        |        | 14.8   | 14.1   | 13.2   | 13.3   | 120 |
| 125 |       |       |       |       |       |       |       |        |        | 13.8   | 13     | 12.1   | 12.2   | 125 |
| 130 |       |       |       |       |       |       |       |        |        |        | 12     | 11.1   | 11.2   | 130 |
| 135 |       |       |       |       |       |       |       |        |        |        | 11.2   | 10.2   | 10.2   | 135 |
| 140 |       |       |       |       |       |       |       |        |        |        |        | 9.5    | 9.5    | 140 |
| 145 |       |       |       |       |       |       |       |        |        |        |        | 8.9    | 8.9    | 145 |
| 150 |       |       |       |       |       |       |       |        |        |        |        | 8      | 8.3    | 150 |
| 155 |       |       |       |       |       |       |       |        |        |        |        |        | 7.8    | 155 |
| 160 |       |       |       |       |       |       |       |        |        |        |        |        | 7.4    | 160 |

\* over rear - en arrière

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Lifting capacities

Forces de levage

T

37 - 171 ft

19'

360°

68,300 lb

48,500 lb

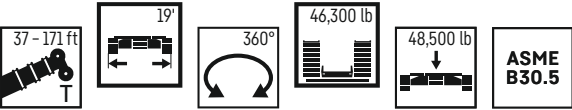
ASME B30.5

|  | 37 ft | 50 ft | 62 ft | 74 ft | 86 ft | 99 ft | 111 ft | 123 ft | 136 ft | 148 ft | 160 ft | 171 ft |  |
|----------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|
| 10                                                                               | 189.6 | 178.7 | 175.5 | 173.6 | 168.8 |       |        |        |        |        |        |        | 10                                                                                  |
| 11                                                                               | 189.6 | 180.2 | 176.3 | 174.2 | 165.6 | 98.3  |        |        |        |        |        |        | 11                                                                                  |
| 12                                                                               | 189.6 | 181.9 | 177.2 | 174.8 | 162.5 | 128.9 |        |        |        |        |        |        | 12                                                                                  |
| 13                                                                               | 189.6 | 183.5 | 178.3 | 175.6 | 158.7 | 126.5 |        |        |        |        |        |        | 13                                                                                  |
| 14                                                                               | 189.6 | 185.1 | 179.5 | 176.1 | 154.4 | 123.9 | 103.2  |        |        |        |        |        | 14                                                                                  |
| 15                                                                               | 185.8 | 183.5 | 179.7 | 174.8 | 150.2 | 121.2 | 101.7  |        |        |        |        |        | 15                                                                                  |
| 16                                                                               | 178   | 177.4 | 177.3 | 168.8 | 146   | 118.4 | 99.8   |        |        |        |        |        | 16                                                                                  |
| 17                                                                               | 170.4 | 171.1 | 170.6 | 163.5 | 141.8 | 115.6 | 98.2   | 82.7   |        |        |        |        | 17                                                                                  |
| 18                                                                               | 163.4 | 164   | 164   | 158.5 | 140.3 | 113   | 97.1   | 81.9   |        |        |        |        | 18                                                                                  |
| 19                                                                               | 157.1 | 157.4 | 157.3 | 153.8 | 140.9 | 110.5 | 96     | 80.8   |        |        |        |        | 19                                                                                  |
| 20                                                                               | 151.2 | 151.6 | 151.3 | 148.7 | 140.9 | 108   | 94.7   | 79.6   | 66.8   |        |        |        | 20                                                                                  |
| 22                                                                               | 137.9 | 139.7 | 140.8 | 136.6 | 130.1 | 103.4 | 90.7   | 77.5   | 65.7   |        |        |        | 22                                                                                  |
| 24                                                                               | 125.4 | 127.2 | 127.9 | 124.6 | 117.4 | 103.2 | 87     | 74.8   | 64.2   | 53.9   |        |        | 24                                                                                  |
| 26                                                                               | 114.7 | 116.7 | 117.3 | 113.1 | 106.5 | 102   | 83.1   | 72.2   | 62.6   | 53     | 44     |        | 26                                                                                  |
| 28                                                                               | 95.3  | 107.6 | 108.3 | 103.1 | 98    | 95.6  | 79.5   | 69.4   | 61.1   | 52     | 43.6   | 36     | 28                                                                                  |
| 30                                                                               |       | 97.5  | 98.4  | 94.6  | 93    | 88.3  | 76.1   | 66.9   | 59.3   | 51.1   | 43.1   | 35.8   | 30                                                                                  |
| 32                                                                               |       | 88.1  | 89.1  | 90.1  | 86.1  | 82    | 73.1   | 64.6   | 57.3   | 50     | 42.5   | 35.6   | 32                                                                                  |
| 34                                                                               |       | 80.4  | 81.3  | 83.4  | 80.3  | 76.2  | 70.5   | 62.1   | 55.5   | 48.6   | 42     | 35.2   | 34                                                                                  |
| 36                                                                               |       | 73.5  | 75.5  | 76.6  | 75.1  | 71.2  | 67.6   | 59.8   | 53.7   | 47.2   | 41.2   | 34.8   | 36                                                                                  |
| 38                                                                               |       | 67.7  | 70.3  | 70.6  | 70    | 66.7  | 64.1   | 57.8   | 51.9   | 45.9   | 40.4   | 34.4   | 38                                                                                  |
| 40                                                                               |       | 62.7  | 65.3  | 65.6  | 65    | 62.5  | 61.3   | 55.9   | 50.2   | 44.6   | 39.4   | 33.9   | 40                                                                                  |
| 45                                                                               |       |       | 55    | 55.3  | 54.7  | 53.5  | 53     | 51     | 46.4   | 41.2   | 37     | 32.4   | 45                                                                                  |
| 50                                                                               |       |       | 47.2  | 47.3  | 46.8  | 46.5  | 46.5   | 45.9   | 42.9   | 38.6   | 34.7   | 30.7   | 50                                                                                  |
| 55                                                                               |       |       |       | 41.2  | 40.7  | 41.2  | 40.7   | 40.7   | 39.2   | 36     | 32.6   | 29.1   | 55                                                                                  |
| 60                                                                               |       |       |       | 36.3  | 35.7  | 36.8  | 35.8   | 36     | 35.2   | 33.4   | 30.6   | 27.5   | 60                                                                                  |
| 65                                                                               |       |       |       | 32.3  | 31.6  | 32.7  | 32.6   | 32     | 31.8   | 31     | 28.5   | 25.9   | 65                                                                                  |
| 70                                                                               |       |       |       |       | 28.2  | 29.3  | 29.3   | 29.1   | 28.8   | 27.9   | 26.6   | 24.4   | 70                                                                                  |
| 75                                                                               |       |       |       |       | 25.4  | 26.4  | 26.4   | 26.2   | 25.8   | 25.5   | 24.5   | 22.8   | 75                                                                                  |
| 80                                                                               |       |       |       |       |       | 23.9  | 23.9   | 24     | 23.4   | 22.8   | 22     | 21.4   | 80                                                                                  |
| 85                                                                               |       |       |       |       |       | 21.8  | 21.6   | 21.9   | 21.3   | 20.6   | 19.7   | 19.8   | 85                                                                                  |
| 90                                                                               |       |       |       |       |       |       | 19.6   | 19.9   | 19.3   | 18.6   | 17.7   | 17.8   | 90                                                                                  |
| 95                                                                               |       |       |       |       |       |       | 17.9   | 18.1   | 17.5   | 16.8   | 16     | 16     | 95                                                                                  |
| 100                                                                              |       |       |       |       |       |       | 16.4   | 16.6   | 16     | 15.3   | 14.4   | 14.5   | 100                                                                                 |
| 105                                                                              |       |       |       |       |       |       |        | 15.2   | 14.5   | 13.9   | 13     | 13.1   | 105                                                                                 |
| 110                                                                              |       |       |       |       |       |       |        | 14     | 13.3   | 12.6   | 11.7   | 11.9   | 110                                                                                 |
| 115                                                                              |       |       |       |       |       |       |        |        | 12.2   | 11.5   | 10.6   | 10.7   | 115                                                                                 |
| 120                                                                              |       |       |       |       |       |       |        |        | 11.2   | 10.5   | 9.7    | 9.8    | 120                                                                                 |
| 125                                                                              |       |       |       |       |       |       |        |        | 10.3   | 9.7    | 8.9    | 9      | 125                                                                                 |
| 130                                                                              |       |       |       |       |       |       |        |        |        | 9      | 8.3    | 8.3    | 130                                                                                 |
| 135                                                                              |       |       |       |       |       |       |        |        |        | 8.4    | 7.6    | 7.7    | 135                                                                                 |
| 140                                                                              |       |       |       |       |       |       |        |        |        |        | 7.1    | 7.1    | 140                                                                                 |
| 145                                                                              |       |       |       |       |       |       |        |        |        |        | 6.6    | 6.5    | 145                                                                                 |
| 150                                                                              |       |       |       |       |       |       |        |        |        |        | 6.2    | 6.1    | 150                                                                                 |
| 155                                                                              |       |       |       |       |       |       |        |        |        |        |        | 5.6    | 155                                                                                 |
| 160                                                                              |       |       |       |       |       |       |        |        |        |        |        | 5.1    | 160                                                                                 |

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Lifting capacities  
Forces de levage

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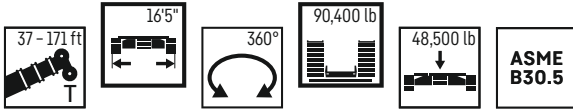
|  | 37 ft | 50 ft | 62 ft | 74 ft | 86 ft | 99 ft | 111 ft | 123 ft | 136 ft | 148 ft | 160 ft | 171 ft |  |
|----------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|
| 10                                                                               | 189.6 | 178.7 | 175.5 | 173.6 | 168.8 |       |        |        |        |        |        |        | 10                                                                                  |
| 11                                                                               | 189.6 | 180.2 | 176.3 | 174.2 | 165.6 | 98.3  |        |        |        |        |        |        | 11                                                                                  |
| 12                                                                               | 189.6 | 181.9 | 177.2 | 174.8 | 162.5 | 128.9 |        |        |        |        |        |        | 12                                                                                  |
| 13                                                                               | 189.6 | 183.5 | 178.3 | 175.6 | 158.7 | 126.5 |        |        |        |        |        |        | 13                                                                                  |
| 14                                                                               | 189.6 | 184.1 | 179.5 | 176.1 | 154.4 | 123.9 | 103.2  |        |        |        |        |        | 14                                                                                  |
| 15                                                                               | 182.5 | 181.4 | 179.1 | 174.8 | 150.2 | 121.2 | 101.7  |        |        |        |        |        | 15                                                                                  |
| 16                                                                               | 174.6 | 174.4 | 174.1 | 164.7 | 146   | 118.4 | 99.8   |        |        |        |        |        | 16                                                                                  |
| 17                                                                               | 167.1 | 167.8 | 164.7 | 153.6 | 141.8 | 115.6 | 98.2   | 82.7   |        |        |        |        | 17                                                                                  |
| 18                                                                               | 158.5 | 159.6 | 155.1 | 143   | 134.4 | 113   | 97.1   | 81.9   |        |        |        |        | 18                                                                                  |
| 19                                                                               | 149.6 | 150.3 | 143.8 | 137.6 | 127.5 | 110.5 | 96     | 80.8   |        |        |        |        | 19                                                                                  |
| 20                                                                               | 141.6 | 142.4 | 137.5 | 128.3 | 119.7 | 108   | 94.7   | 79.6   | 66.8   |        |        |        | 20                                                                                  |
| 22                                                                               | 127.4 | 127.9 | 121.5 | 113.9 | 106.7 | 103   | 90.7   | 77.5   | 65.7   |        |        |        | 22                                                                                  |
| 24                                                                               | 112.2 | 113.9 | 108.3 | 102.3 | 99.4  | 94    | 86.7   | 74.8   | 64.2   | 53.9   |        |        | 24                                                                                  |
| 26                                                                               | 97.8  | 100.8 | 97.7  | 95.6  | 90.6  | 85.1  | 81.5   | 72.2   | 62.6   | 53     | 44     |        | 26                                                                                  |
| 28                                                                               | 86.3  | 89.3  | 89.9  | 87.2  | 83.1  | 78.2  | 75.5   | 69.4   | 61.1   | 52     | 43.6   | 36     | 28                                                                                  |
| 30                                                                               |       | 79.8  | 82.6  | 80.1  | 76.2  | 72    | 69.8   | 66     | 59.3   | 51.1   | 43.1   | 35.8   | 30                                                                                  |
| 32                                                                               |       | 71.9  | 74.8  | 74    | 70.4  | 67.6  | 64.7   | 62.1   | 57.3   | 50     | 42.5   | 35.6   | 32                                                                                  |
| 34                                                                               |       | 65.4  | 68.2  | 68.3  | 65.5  | 62.8  | 61     | 58.1   | 55.5   | 48.6   | 42     | 35.2   | 34                                                                                  |
| 36                                                                               |       | 59.6  | 62.5  | 62.8  | 61.1  | 58.5  | 56.9   | 55     | 52.6   | 47.2   | 41.2   | 34.8   | 36                                                                                  |
| 38                                                                               |       | 54.8  | 57.5  | 57.7  | 56.9  | 54.7  | 53.5   | 52.2   | 49.5   | 45.9   | 40.4   | 34.4   | 38                                                                                  |
| 40                                                                               |       | 50.6  | 53.2  | 53.5  | 52.9  | 52.1  | 50.4   | 49     | 47.2   | 44.6   | 39.4   | 33.9   | 40                                                                                  |
| 45                                                                               |       |       | 44.5  | 44.8  | 44.3  | 45    | 44.6   | 42.9   | 41.3   | 39.8   | 37     | 32.4   | 45                                                                                  |
| 50                                                                               |       |       | 37.9  | 38.1  | 37.6  | 38.8  | 38.8   | 37.8   | 36.8   | 35.6   | 33.9   | 30.7   | 50                                                                                  |
| 55                                                                               |       |       |       | 33    | 32.4  | 33.6  | 33.6   | 33.7   | 33.1   | 31.6   | 30     | 28.8   | 55                                                                                  |
| 60                                                                               |       |       |       | 28.8  | 28.2  | 29.4  | 29.4   | 29.8   | 29.3   | 28.1   | 26.7   | 26.3   | 60                                                                                  |
| 65                                                                               |       |       |       | 25.5  | 24.8  | 26    | 25.8   | 26.3   | 25.6   | 24.9   | 23.8   | 23.5   | 65                                                                                  |
| 70                                                                               |       |       |       |       | 22    | 23    | 22.9   | 23.2   | 22.5   | 21.8   | 21     | 21     | 70                                                                                  |
| 75                                                                               |       |       |       |       | 19.6  | 20.4  | 20.3   | 20.7   | 20.1   | 19.3   | 18.4   | 18.5   | 75                                                                                  |
| 80                                                                               |       |       |       |       |       | 18.3  | 18.1   | 18.4   | 17.8   | 17.1   | 16.3   | 16.3   | 80                                                                                  |
| 85                                                                               |       |       |       |       |       | 16.4  | 16.2   | 16.5   | 15.9   | 15.3   | 14.4   | 14.5   | 85                                                                                  |
| 90                                                                               |       |       |       |       |       |       | 14.6   | 14.9   | 14.3   | 13.6   | 12.7   | 12.8   | 90                                                                                  |
| 95                                                                               |       |       |       |       |       |       | 13.1   | 13.4   | 12.8   | 12.1   | 11.2   | 11.3   | 95                                                                                  |
| 100                                                                              |       |       |       |       |       |       | 11.9   | 12.1   | 11.5   | 10.8   | 10     | 10.1   | 100                                                                                 |
| 105                                                                              |       |       |       |       |       |       |        | 11     | 10.3   | 9.7    | 9      | 9.1    | 105                                                                                 |
| 110                                                                              |       |       |       |       |       |       |        | 10     | 9.4    | 8.9    | 8.2    | 8.3    | 110                                                                                 |
| 115                                                                              |       |       |       |       |       |       |        |        | 8.7    | 8.1    | 7.4    | 7.5    | 115                                                                                 |
| 120                                                                              |       |       |       |       |       |       |        |        | 8      | 7.4    | 6.7    | 6.8    | 120                                                                                 |
| 125                                                                              |       |       |       |       |       |       |        |        | 7.4    | 6.8    | 6.1    | 6.2    | 125                                                                                 |
| 130                                                                              |       |       |       |       |       |       |        |        |        | 6.3    | 5.5    | 5.6    | 130                                                                                 |
| 135                                                                              |       |       |       |       |       |       |        |        |        | 5.8    | 5      | 5      | 135                                                                                 |
| 140                                                                              |       |       |       |       |       |       |        |        |        |        | 4.4    | 4.5    | 140                                                                                 |
| 145                                                                              |       |       |       |       |       |       |        |        |        |        | 3.9    | 4      | 145                                                                                 |
| 150                                                                              |       |       |       |       |       |       |        |        |        |        | 3.5    | 3.5    | 150                                                                                 |
| 155                                                                              |       |       |       |       |       |       |        |        |        |        |        | 3      | 155                                                                                 |
| 160                                                                              |       |       |       |       |       |       |        |        |        |        |        | 2.6    | 160                                                                                 |

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# Lifting capacities

## Forces de levage

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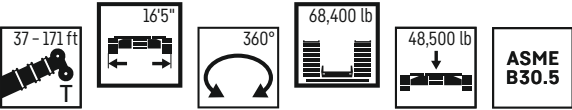
|     | 37 ft | 50 ft | 62 ft | 74 ft | 86 ft | 99 ft | 111 ft | 123 ft | 136 ft | 148 ft | 160 ft | 171 ft |     |
|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-----|
| 17  |       | 172.5 | 161   |       |       |       |        |        |        |        |        |        | 17  |
| 18  | 166.1 | 165.2 | 156.3 |       |       |       |        |        |        |        |        |        | 18  |
| 19  | 159.7 | 158.5 | 158.6 |       |       |       |        |        |        |        |        |        | 19  |
| 20  | 153.6 | 153.8 | 152.3 |       |       |       |        |        |        |        |        |        | 20  |
| 22  | 141.4 | 142.6 | 140.9 | 131.8 | 110.5 |       |        |        |        |        |        |        | 22  |
| 24  | 129.2 | 130.8 | 126.6 | 122.6 | 115.9 |       |        |        |        |        |        |        | 24  |
| 26  | 116.7 | 119.5 | 117.5 | 112   | 105.7 | 89.4  |        |        |        |        |        |        | 26  |
| 28  | 95.3  | 107   | 107.5 | 102.5 | 97.4  | 85.5  | 78.2   |        |        |        |        |        | 28  |
| 30  |       | 96.5  | 97.4  | 94.5  | 93    | 88.4  | 76.1   |        |        |        |        |        | 30  |
| 32  |       | 87.6  | 88.6  | 90    | 86.4  | 82.4  | 73.1   | 63.9   |        |        |        |        | 32  |
| 34  |       | 80.3  | 81.2  | 83.2  | 80.7  | 76.9  | 70.5   | 62.1   |        |        |        |        | 34  |
| 36  |       | 73.8  | 75.7  | 76.7  | 75.7  | 72    | 67.6   | 59.8   | 53.5   |        |        |        | 36  |
| 38  |       | 68.2  | 70.7  | 71    | 70.6  | 67.6  | 64.7   | 57.8   | 51.9   |        |        |        | 38  |
| 40  |       | 63.4  | 65.9  | 66.1  | 65.6  | 63.5  | 61.7   | 55.9   | 50.2   | 44.6   |        |        | 40  |
| 45  |       |       | 55.8  | 56.1  | 55.6  | 54.4  | 54.1   | 51.1   | 46.4   | 41.2   | 37     |        | 45  |
| 50  |       |       | 48.1  | 48.3  | 47.8  | 47.4  | 47.5   | 46.3   | 42.9   | 38.6   | 34.7   | 30.7   | 50  |
| 55  |       |       |       | 42.2  | 41.7  | 41.3  | 41.6   | 41.5   | 39.4   | 36     | 32.6   | 29.1   | 55  |
| 60  |       |       |       | 37.3  | 36.7  | 37.5  | 36.8   | 37     | 35.9   | 33.4   | 30.6   | 27.5   | 60  |
| 65  |       |       |       | 33    | 32.7  | 33.8  | 33.2   | 33     | 32.6   | 31.2   | 28.5   | 25.9   | 65  |
| 70  |       |       |       |       | 29.3  | 30.3  | 30.3   | 29.9   | 29.5   | 28.8   | 26.6   | 24.4   | 70  |
| 75  |       |       |       |       | 26.4  | 27.4  | 27.4   | 27.2   | 26.9   | 26.2   | 24.9   | 22.8   | 75  |
| 80  |       |       |       |       |       | 24.9  | 24.9   | 24.6   | 24.2   | 23.9   | 23.1   | 21.4   | 80  |
| 85  |       |       |       |       |       | 22.7  | 22.6   | 22.7   | 22.1   | 21.7   | 20.8   | 20.2   | 85  |
| 90  |       |       |       |       |       |       | 20.6   | 20.9   | 20.3   | 19.6   | 18.7   | 18.8   | 90  |
| 95  |       |       |       |       |       |       | 18.9   | 19.1   | 18.5   | 17.8   | 17     | 17     | 95  |
| 100 |       |       |       |       |       |       | 17.4   | 17.5   | 16.9   | 16.2   | 15.4   | 15.5   | 100 |
| 105 |       |       |       |       |       |       |        | 16.2   | 15.5   | 14.8   | 13.9   | 14.1   | 105 |
| 110 |       |       |       |       |       |       |        | 14.9   | 14.2   | 13.5   | 12.7   | 12.8   | 110 |
| 115 |       |       |       |       |       |       |        |        | 13.1   | 12.4   | 11.5   | 11.6   | 115 |
| 120 |       |       |       |       |       |       |        |        | 12     | 11.3   | 10.5   | 10.5   | 120 |
| 125 |       |       |       |       |       |       |        |        | 11.2   | 10.4   | 9.6    | 9.7    | 125 |
| 130 |       |       |       |       |       |       |        |        |        | 9.7    | 8.9    | 9      | 130 |
| 135 |       |       |       |       |       |       |        |        |        | 9      | 8.3    | 8.3    | 135 |
| 140 |       |       |       |       |       |       |        |        |        |        | 7.7    | 7.7    | 140 |
| 145 |       |       |       |       |       |       |        |        |        |        | 7.2    | 7.1    | 145 |
| 150 |       |       |       |       |       |       |        |        |        |        | 6.7    | 6.6    | 150 |
| 155 |       |       |       |       |       |       |        |        |        |        |        | 6.2    | 155 |
| 160 |       |       |       |       |       |       |        |        |        |        |        | 5.8    | 160 |

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Lifting capacities  
Forces de levage

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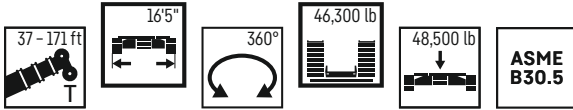
|  | 37 ft | 50 ft | 62 ft | 74 ft | 86 ft | 99 ft | 111 ft | 123 ft | 136 ft | 148 ft | 160 ft | 171 ft |  |
|----------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-------------------------------------------------------------------------------------|
| 10                                                                               | 189.6 | 178.7 | 175.5 | 173.6 |       |       |        |        |        |        |        |        | 10                                                                                  |
| 11                                                                               | 189.6 | 180.2 | 176.3 | 174.2 | 154.2 |       |        |        |        |        |        |        | 11                                                                                  |
| 12                                                                               | 189.6 | 181.9 | 177.2 | 174.8 | 150.8 |       |        |        |        |        |        |        | 12                                                                                  |
| 13                                                                               | 189.6 | 183.5 | 178.3 | 175.6 | 158.7 |       |        |        |        |        |        |        | 13                                                                                  |
| 14                                                                               | 189.6 | 185.1 | 179.5 | 176   | 154.4 | 123.2 |        |        |        |        |        |        | 14                                                                                  |
| 15                                                                               | 185.8 | 183.5 | 179.2 | 174.3 | 150.2 | 121.2 |        |        |        |        |        |        | 15                                                                                  |
| 16                                                                               | 178   | 177.4 | 175.7 | 161.8 | 146   | 118.4 | 97.1   |        |        |        |        |        | 16                                                                                  |
| 17                                                                               | 170.3 | 170.8 | 163.6 | 151   | 141.8 | 115.6 | 98.2   |        |        |        |        |        | 17                                                                                  |
| 18                                                                               | 162.4 | 162.1 | 152.4 | 141.4 | 133.9 | 113   | 97.1   | 81.9   |        |        |        |        | 18                                                                                  |
| 19                                                                               | 155.1 | 151.9 | 142.2 | 136.5 | 127.2 | 110.5 | 96     | 80.8   |        |        |        |        | 19                                                                                  |
| 20                                                                               | 147   | 142.5 | 136.4 | 128   | 119.9 | 108   | 94.7   | 79.6   |        |        |        |        | 20                                                                                  |
| 22                                                                               | 128.5 | 127.6 | 121.6 | 114.5 | 107.8 | 103.1 | 90.7   | 77.5   | 65.7   |        |        |        | 22                                                                                  |
| 24                                                                               | 111.7 | 114   | 109.3 | 103.5 | 100.7 | 95.6  | 87     | 74.8   | 64.2   | 53.9   |        |        | 24                                                                                  |
| 26                                                                               | 98.3  | 101.1 | 99.2  | 96.6  | 92.3  | 87    | 82.3   | 72.2   | 62.6   | 53     | 44     |        | 26                                                                                  |
| 28                                                                               | 87.5  | 90.3  | 90.8  | 89.1  | 85.1  | 80.3  | 77.2   | 69.4   | 61.1   | 52     | 43.6   | 36     | 28                                                                                  |
| 30                                                                               |       | 81.3  | 83.7  | 82.1  | 78.4  | 74.2  | 72.1   | 66.9   | 59.3   | 51.1   | 43.1   | 35.8   | 30                                                                                  |
| 32                                                                               |       | 73.7  | 76.4  | 76.1  | 72.7  | 69    | 67.1   | 63.7   | 57.3   | 50     | 42.5   | 35.6   | 32                                                                                  |
| 34                                                                               |       | 67.4  | 70    | 70.3  | 67.8  | 64.8  | 62.8   | 60.2   | 55.5   | 48.6   | 42     | 35.2   | 34                                                                                  |
| 36                                                                               |       | 61.7  | 64.5  | 64.7  | 63.5  | 60.9  | 58.9   | 56.7   | 53.7   | 47.2   | 41.2   | 34.8   | 36                                                                                  |
| 38                                                                               |       | 57    | 59.5  | 59.8  | 59.2  | 57.1  | 55.5   | 53.7   | 51.5   | 45.9   | 40.4   | 34.4   | 38                                                                                  |
| 40                                                                               |       | 52.8  | 55.3  | 55.5  | 55    | 53.6  | 52.7   | 51.1   | 48.9   | 44.6   | 39.4   | 33.9   | 40                                                                                  |
| 45                                                                               |       |       | 46.6  | 46.9  | 46.4  | 47.1  | 45.7   | 44.9   | 43.2   | 41.2   | 37     | 32.4   | 45                                                                                  |
| 50                                                                               |       |       | 40    | 40.2  | 39.7  | 40.9  | 40.8   | 39.7   | 38.5   | 37.1   | 34.6   | 30.7   | 50                                                                                  |
| 55                                                                               |       |       |       | 35    | 34.5  | 35.6  | 35.6   | 35.2   | 34.7   | 33.7   | 32.1   | 29.1   | 55                                                                                  |
| 60                                                                               |       |       |       | 30.8  | 30.2  | 31.3  | 31.3   | 31.3   | 30.9   | 30.1   | 28.7   | 27.4   | 60                                                                                  |
| 65                                                                               |       |       |       | 27.3  | 26.7  | 27.8  | 27.7   | 28.2   | 27.6   | 26.8   | 25.7   | 25.4   | 65                                                                                  |
| 70                                                                               |       |       |       |       | 23.8  | 24.8  | 24.7   | 25.1   | 24.4   | 23.7   | 22.8   | 22.8   | 70                                                                                  |
| 75                                                                               |       |       |       |       | 21.3  | 22.2  | 22.1   | 22.4   | 21.8   | 21.1   | 20.2   | 20.3   | 75                                                                                  |
| 80                                                                               |       |       |       |       |       | 20    | 19.8   | 20.1   | 19.5   | 18.8   | 18     | 18     | 80                                                                                  |
| 85                                                                               |       |       |       |       |       | 18.1  | 17.8   | 18.2   | 17.6   | 16.9   | 16     | 16.1   | 85                                                                                  |
| 90                                                                               |       |       |       |       |       |       | 16.1   | 16.4   | 15.8   | 15.1   | 14.2   | 14.3   | 90                                                                                  |
| 95                                                                               |       |       |       |       |       |       | 14.6   | 14.9   | 14.3   | 13.6   | 12.7   | 12.8   | 95                                                                                  |
| 100                                                                              |       |       |       |       |       |       | 13.4   | 13.5   | 12.9   | 12.2   | 11.3   | 11.5   | 100                                                                                 |
| 105                                                                              |       |       |       |       |       |       |        | 12.3   | 11.6   | 11     | 10.1   | 10.3   | 105                                                                                 |
| 110                                                                              |       |       |       |       |       |       |        | 11.3   | 10.6   | 9.9    | 9.2    | 9.3    | 110                                                                                 |
| 115                                                                              |       |       |       |       |       |       |        |        | 9.7    | 9.1    | 8.4    | 8.5    | 115                                                                                 |
| 120                                                                              |       |       |       |       |       |       |        |        | 9      | 8.4    | 7.7    | 7.8    | 120                                                                                 |
| 125                                                                              |       |       |       |       |       |       |        |        | 8.4    | 7.8    | 7      | 7.1    | 125                                                                                 |
| 130                                                                              |       |       |       |       |       |       |        |        |        | 7.2    | 6.5    | 6.5    | 130                                                                                 |
| 135                                                                              |       |       |       |       |       |       |        |        |        | 6.7    | 5.9    | 5.9    | 135                                                                                 |
| 140                                                                              |       |       |       |       |       |       |        |        |        |        | 5.4    | 5.4    | 140                                                                                 |
| 145                                                                              |       |       |       |       |       |       |        |        |        |        | 4.9    | 4.9    | 145                                                                                 |
| 150                                                                              |       |       |       |       |       |       |        |        |        |        | 4.4    | 4.4    | 150                                                                                 |
| 155                                                                              |       |       |       |       |       |       |        |        |        |        |        | 3.9    | 155                                                                                 |
| 160                                                                              |       |       |       |       |       |       |        |        |        |        |        | 3.5    | 160                                                                                 |

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# Lifting capacities

## Forces de levage

T

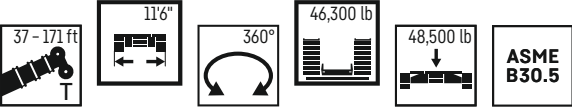


|     | 37 ft | 50 ft | 62 ft | 74 ft | 86 ft | 99 ft | 111 ft | 123 ft | 136 ft | 148 ft | 160 ft | 171 ft |     |
|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-----|
| 10  | 189.6 | 178.7 | 175.5 | 173.6 | 168.8 |       |        |        |        |        |        |        | 10  |
| 11  | 189.6 | 180.2 | 176.3 | 174.2 | 165.6 | 98.3  |        |        |        |        |        |        | 11  |
| 12  | 189.6 | 181.9 | 177.2 | 174.8 | 162.5 | 128.9 |        |        |        |        |        |        | 12  |
| 13  | 189.6 | 183.5 | 175.8 | 169.9 | 156.7 | 126.5 |        |        |        |        |        |        | 13  |
| 14  | 189.6 | 176.5 | 169.9 | 155.7 | 145.4 | 123.9 | 103.2  |        |        |        |        |        | 14  |
| 15  | 181.7 | 169.7 | 155.7 | 143.5 | 134.7 | 121.2 | 101.7  |        |        |        |        |        | 15  |
| 16  | 169.2 | 155.6 | 143.8 | 134.3 | 126   | 116.9 | 99.8   |        |        |        |        |        | 16  |
| 17  | 155.2 | 144.2 | 134   | 126.7 | 117.3 | 112   | 98.2   | 82.7   |        |        |        |        | 17  |
| 18  | 143.2 | 135   | 127.1 | 118.6 | 110   | 105.4 | 96.6   | 81.9   |        |        |        |        | 18  |
| 19  | 133   | 125.5 | 118.5 | 111.4 | 103.4 | 99.4  | 93.3   | 80.8   |        |        |        |        | 19  |
| 20  | 123   | 117.7 | 111.4 | 104.3 | 101.1 | 94.4  | 90     | 79.6   | 66.8   |        |        |        | 20  |
| 22  | 104.4 | 103.8 | 100.8 | 95.4  | 90.9  | 86.1  | 81.7   | 76.3   | 65.7   |        |        |        | 22  |
| 24  | 90.4  | 92.7  | 90.9  | 86.9  | 82.3  | 78.3  | 74.8   | 70.9   | 64.2   | 53.9   |        |        | 24  |
| 26  | 79.3  | 82.1  | 82.5  | 79.2  | 74.9  | 71.2  | 69.2   | 65.9   | 61.6   | 53     | 44     |        | 26  |
| 28  | 70.3  | 73.1  | 75.5  | 72.3  | 68.9  | 66.5  | 63.7   | 61.5   | 58.6   | 52     | 43.6   | 36     | 28  |
| 30  |       | 65.6  | 68.3  | 66.5  | 63.3  | 61.9  | 59.4   | 57.1   | 54.9   | 51.1   | 43.1   | 35.8   | 30  |
| 32  |       | 59.2  | 62    | 61.6  | 58.5  | 57.6  | 56     | 53.4   | 51     | 48.6   | 42.5   | 35.6   | 32  |
| 34  |       | 54    | 56.6  | 56.9  | 54.5  | 53.8  | 52.4   | 49.8   | 48.2   | 45.6   | 42     | 35.2   | 34  |
| 36  |       | 49.3  | 52    | 52.3  | 50.9  | 50.5  | 48.7   | 46.8   | 45.5   | 43.6   | 41.2   | 34.8   | 36  |
| 38  |       | 45.3  | 47.9  | 48.1  | 47.4  | 47.3  | 45.9   | 44.3   | 43.1   | 41.3   | 39.2   | 34.4   | 38  |
| 40  |       | 41.9  | 44.3  | 44.6  | 44.1  | 44.3  | 43.2   | 42.2   | 40.8   | 39     | 36.9   | 33.9   | 40  |
| 45  |       |       | 37.1  | 37.4  | 36.9  | 38.1  | 37.3   | 37     | 35.4   | 33.7   | 31.9   | 31.5   | 45  |
| 50  |       |       | 31.6  | 31.8  | 31.3  | 32.5  | 32.4   | 32.5   | 31.1   | 29.6   | 28     | 27.6   | 50  |
| 55  |       |       |       | 27.5  | 26.9  | 28.1  | 27.9   | 28.4   | 27.4   | 26.2   | 24.7   | 24.4   | 55  |
| 60  |       |       |       | 23.9  | 23.4  | 24.4  | 24.2   | 24.6   | 24     | 23.1   | 21.8   | 21.6   | 60  |
| 65  |       |       |       | 21.1  | 20.4  | 21.3  | 21.1   | 21.6   | 20.9   | 20.2   | 19.2   | 19.2   | 65  |
| 70  |       |       |       |       | 17.8  | 18.7  | 18.6   | 18.9   | 18.3   | 17.6   | 16.7   | 16.8   | 70  |
| 75  |       |       |       |       | 15.7  | 16.5  | 16.4   | 16.7   | 16.2   | 15.4   | 14.5   | 14.7   | 75  |
| 80  |       |       |       |       |       | 14.7  | 14.5   | 14.8   | 14.2   | 13.5   | 12.7   | 12.7   | 80  |
| 85  |       |       |       |       |       | 13.1  | 12.8   | 13.2   | 12.6   | 11.9   | 11     | 11.2   | 85  |
| 90  |       |       |       |       |       |       | 11.5   | 11.7   | 11.2   | 10.5   | 9.7    | 9.8    | 90  |
| 95  |       |       |       |       |       |       | 10.2   | 10.4   | 9.9    | 9.4    | 8.7    | 8.8    | 95  |
| 100 |       |       |       |       |       |       | 9.3    | 9.5    | 9      | 8.4    | 7.8    | 7.9    | 100 |
| 105 |       |       |       |       |       |       |        | 8.7    | 8.2    | 7.6    | 6.9    | 7      | 105 |
| 110 |       |       |       |       |       |       |        | 8      | 7.4    | 6.9    | 6.2    | 6.3    | 110 |
| 115 |       |       |       |       |       |       |        |        | 6.8    | 6.2    | 5.6    | 5.6    | 115 |
| 120 |       |       |       |       |       |       |        |        | 6.2    | 5.7    | 5      | 5      | 120 |
| 125 |       |       |       |       |       |       |        |        | 5.7    | 5.1    | 4.4    | 4.5    | 125 |
| 130 |       |       |       |       |       |       |        |        |        | 4.6    | 3.8    | 3.9    | 130 |
| 135 |       |       |       |       |       |       |        |        |        | 4.1    | 3.2    | 3.3    | 135 |
| 140 |       |       |       |       |       |       |        |        |        |        | 2.7    | 2.8    | 140 |
| 145 |       |       |       |       |       |       |        |        |        |        | 2.3    | 2.3    | 145 |
| 150 |       |       |       |       |       |       |        |        |        |        | 1.9    | 1.8    | 150 |

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Lifting capacities  
Forces de levage

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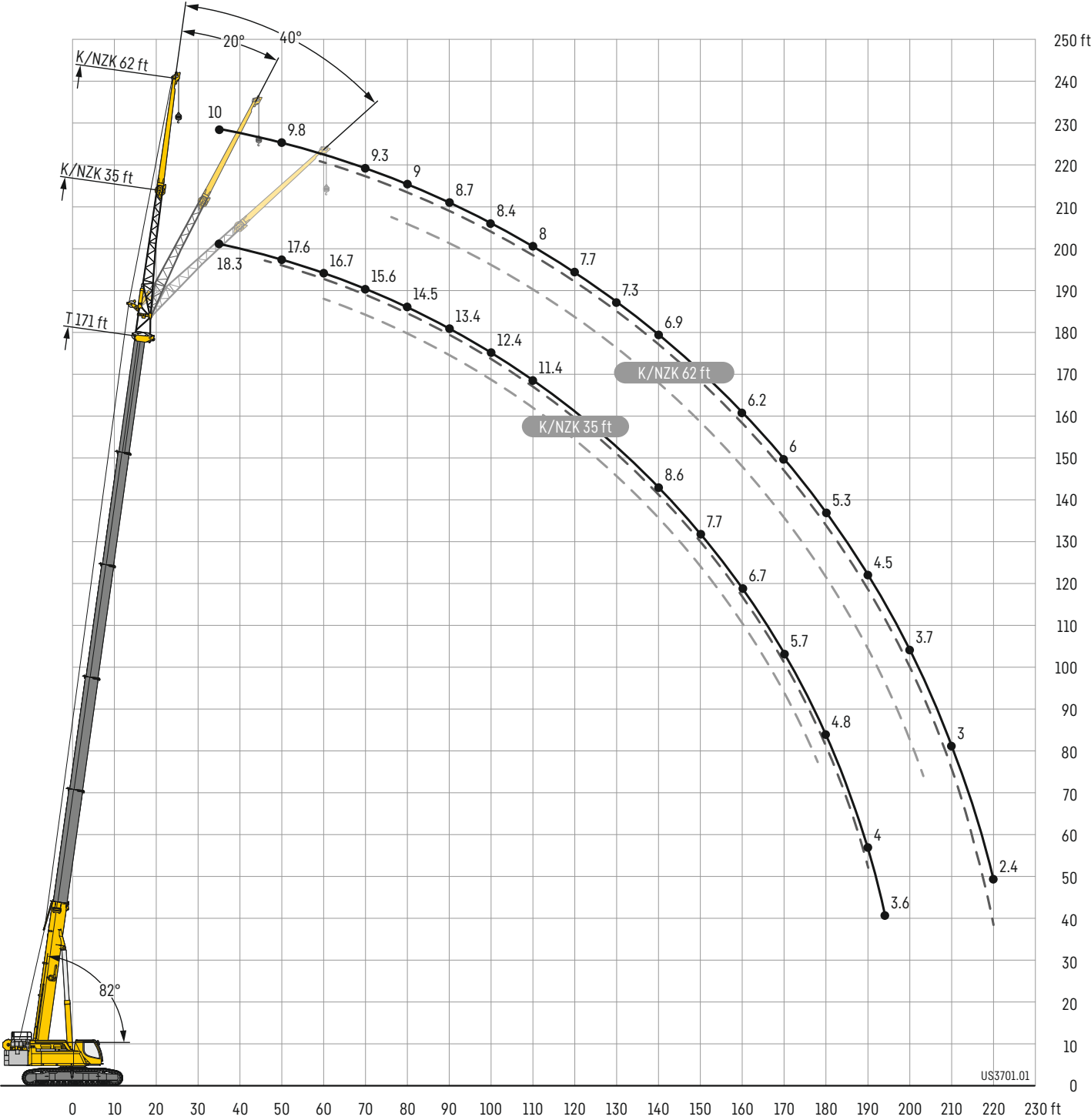
|     | 37 ft | 50 ft | 62 ft | 74 ft | 86 ft | 99 ft | 111 ft | 123 ft | 136 ft | 148 ft | 160 ft | 171 ft |     |
|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-----|
| 18  | 88,8  | 80,3  | 73,8  |       |       |       |        |        |        |        |        |        | 18  |
| 19  | 82,5  | 74,9  | 70,8  |       |       |       |        |        |        |        |        |        | 19  |
| 20  | 76,3  | 73,6  | 66,7  |       |       |       |        |        |        |        |        |        | 20  |
| 22  | 65,8  | 66,9  | 61,8  | 57,2  |       |       |        |        |        |        |        |        | 22  |
| 24  | 57,5  | 59,8  | 55,5  | 51,6  | 50,2  |       |        |        |        |        |        |        | 24  |
| 26  | 50,8  | 53,2  | 53,5  | 46,8  | 46,3  | 43,1  |        |        |        |        |        |        | 26  |
| 28  | 45,2  | 47,6  | 50    | 45,4  | 42,4  | 39,5  |        |        |        |        |        |        | 28  |
| 30  |       | 42,8  | 45,3  | 44,2  | 41,9  | 39,9  | 37,2   |        |        |        |        |        | 30  |
| 32  |       | 38,7  | 41,3  | 41    | 38,7  | 37,1  | 35,3   |        |        |        |        |        | 32  |
| 34  |       | 35,3  | 37,8  | 37,9  | 36    | 36,1  | 33,8   | 30,8   |        |        |        |        | 34  |
| 36  |       | 32,2  | 34,7  | 34,9  | 33,6  | 33,7  | 32,5   | 31     | 27,8   |        |        |        | 36  |
| 38  |       | 29,5  | 31,9  | 32,2  | 31,3  | 31,5  | 30,5   | 29,1   | 27,4   |        |        |        | 38  |
| 40  |       | 27,2  | 29,5  | 29,8  | 29,2  | 29,5  | 28,7   | 27,6   | 26,5   | 24,5   |        |        | 40  |
| 45  |       |       | 24,6  | 24,8  | 24,2  | 25,1  | 24,6   | 24,5   | 23,3   | 21,9   | 20,4   |        | 45  |
| 50  |       |       | 20,8  | 20,8  | 20,1  | 21,1  | 20,9   | 21,3   | 20,2   | 19     | 17,6   | 17,4   | 50  |
| 55  |       |       |       | 17,6  | 16,9  | 17,9  | 17,7   | 18,1   | 17,5   | 16,5   | 15,2   | 15,1   | 55  |
| 60  |       |       |       | 15    | 14,3  | 15,2  | 15,1   | 15,5   | 14,9   | 14,2   | 13,1   | 13,1   | 60  |
| 65  |       |       |       | 12,9  | 12,1  | 13    | 12,8   | 13,3   | 12,7   | 12     | 11,1   | 11,3   | 65  |
| 70  |       |       |       |       | 10,3  | 11,2  | 11     | 11,4   | 10,8   | 10,2   | 9,4    | 9,5    | 70  |
| 75  |       |       |       |       | 9     | 9,7   | 9,6    | 9,9    | 9,4    | 8,9    | 8,2    | 8,2    | 75  |
| 80  |       |       |       |       |       | 8,6   | 8,5    | 8,7    | 8,3    | 7,7    | 7,1    | 7,1    | 80  |
| 85  |       |       |       |       |       | 7,6   | 7,5    | 7,8    | 7,3    | 6,8    | 6,1    | 6,2    | 85  |
| 90  |       |       |       |       |       |       | 6,7    | 6,9    | 6,4    | 5,9    | 5,2    | 5,3    | 90  |
| 95  |       |       |       |       |       |       | 6      | 6,1    | 5,7    | 5,2    | 4,5    | 4,6    | 95  |
| 100 |       |       |       |       |       |       | 5,4    | 5,5    | 5      | 4,5    | 3,7    | 3,8    | 100 |
| 105 |       |       |       |       |       |       |        | 4,9    | 4,4    | 3,9    | 2,8    | 3,1    | 105 |
| 110 |       |       |       |       |       |       |        | 4,4    | 3,8    | 3,1    | 1,9    | 2,1    | 110 |
| 115 |       |       |       |       |       |       |        |        | 3,2    | 2,3    |        |        | 115 |
| 120 |       |       |       |       |       |       |        |        | 2,6    |        |        |        | 120 |
| 125 |       |       |       |       |       |       |        |        | 2,1    |        |        |        | 125 |

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# Lifting heights

## Hauteurs de levage

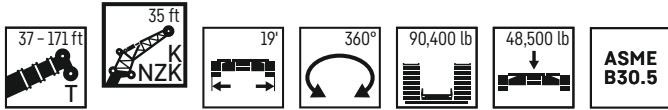
TK/TNZK



# Lifting capacities

## Forces de levage

TK/TNZK



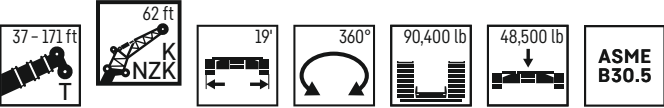
|  | 37 ft       |      |      | 123 ft |      |      | 136 ft |      |      | 148 ft |      |      | 160 ft |      |      | 171 ft |      |      |  |
|----------------------------------------------------------------------------------|-------------|------|------|--------|------|------|--------|------|------|--------|------|------|--------|------|------|--------|------|------|-------------------------------------------------------------------------------------|
|                                                                                  | K/NZK 35 ft |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      |                                                                                     |
|                                                                                  | 0°          | 20°  | 40°  | 0°     | 20°  | 40°  | 0°     | 20°  | 40°  | 0°     | 20°  | 40°  | 0°     | 20°  | 40°  | 0°     | 20°  | 40°  |                                                                                     |
| 10                                                                               | 37          |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 10                                                                                  |
| 11                                                                               | 37          |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 11                                                                                  |
| 12                                                                               | 37          |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 12                                                                                  |
| 13                                                                               | 37          |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 13                                                                                  |
| 14                                                                               | 36.6        |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 14                                                                                  |
| 15                                                                               | 36          |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 15                                                                                  |
| 16                                                                               | 35.3        |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 16                                                                                  |
| 17                                                                               | 34.7        | 31.1 |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 17                                                                                  |
| 18                                                                               | 33.8        | 30.3 |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 18                                                                                  |
| 19                                                                               | 33.1        | 29.7 |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 19                                                                                  |
| 20                                                                               | 32.2        | 29   |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 20                                                                                  |
| 22                                                                               | 30.5        | 27.7 |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 22                                                                                  |
| 24                                                                               | 28.7        | 26.2 | 20.7 | 37     |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 24                                                                                  |
| 26                                                                               | 27          | 25   | 20   | 37     |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 26                                                                                  |
| 28                                                                               | 25.3        | 24.1 | 19.4 | 37     |      |      | 32.1   |      |      |        |      |      |        |      |      |        |      |      | 28                                                                                  |
| 30                                                                               | 23.9        | 23.1 | 18.8 | 37     |      |      | 32     |      |      | 28.7   |      |      |        |      |      |        |      |      | 30                                                                                  |
| 32                                                                               | 22.6        | 22.2 | 18.3 | 37     | 31.8 |      | 31.7   |      |      | 28.6   |      |      |        |      |      |        |      |      | 32                                                                                  |
| 34                                                                               | 21.4        | 21.3 | 17.9 | 37     | 31.2 |      | 31.5   |      |      | 28.4   |      |      | 23.2   |      |      | 18.3   |      |      | 34                                                                                  |
| 36                                                                               | 20.1        | 20.4 | 17.5 | 37     | 30.6 |      | 31.2   |      |      | 28.2   |      |      | 23     |      |      | 18.3   |      |      | 36                                                                                  |
| 38                                                                               | 19.1        | 19.7 | 17.1 | 36.9   | 29.9 |      | 30.9   | 27   |      | 28     |      |      | 22.8   |      |      | 18.2   |      |      | 38                                                                                  |
| 40                                                                               | 18.2        | 19.1 | 16.7 | 36.5   | 29.3 | 20.7 | 30.6   | 26.7 |      | 27.8   | 25.2 |      | 22.6   |      |      | 18.2   |      |      | 40                                                                                  |
| 45                                                                               | 16.1        | 17.6 | 16   | 35.1   | 27.8 | 20   | 29.3   | 25.7 | 19.4 | 27.3   | 24.5 |      | 21.9   | 19.6 |      | 17.9   | 17   |      | 45                                                                                  |
| 50                                                                               | 14.1        | 15.8 | 15.6 | 33.3   | 26.3 | 19.3 | 27.9   | 24.7 | 18.8 | 26.4   | 23.9 | 18.7 | 21.2   | 18.7 |      | 17.6   | 16.5 |      | 50                                                                                  |
| 55                                                                               | 12.3        | 13.6 | 14.4 | 31.4   | 25   | 18.7 | 26.5   | 23.7 | 18.3 | 25.4   | 23.2 | 18.7 | 20.4   | 17.8 | 16.1 | 17.1   | 15.8 |      | 55                                                                                  |
| 60                                                                               | 10.9        | 11.6 | 11.2 | 29.4   | 23.9 | 18.2 | 25.2   | 22.7 | 17.8 | 24.3   | 22.3 | 18.7 | 19.6   | 17.1 | 15.4 | 16.7   | 15.2 | 14.1 | 60                                                                                  |
| 65                                                                               |             |      |      | 27.4   | 22.9 | 17.8 | 23.9   | 21.8 | 17.4 | 23.1   | 21.4 | 18.7 | 18.7   | 16.3 | 14.8 | 16.2   | 14.6 | 13.6 | 65                                                                                  |
| 70                                                                               |             |      |      | 25.5   | 21.9 | 17.4 | 22.6   | 20.9 | 17   | 22     | 20.5 | 18.7 | 17.9   | 15.6 | 14.3 | 15.6   | 14.1 | 13.1 | 70                                                                                  |
| 75                                                                               |             |      |      | 23.8   | 20.9 | 17   | 21.5   | 19.9 | 16.8 | 20.9   | 19.7 | 18.5 | 17.1   | 15   | 13.8 | 15.1   | 13.5 | 12.7 | 75                                                                                  |
| 80                                                                               |             |      |      | 22.4   | 20.1 | 16.6 | 20.5   | 19.1 | 16.5 | 19.7   | 19   | 18.1 | 16.3   | 14.4 | 13.3 | 14.5   | 13.1 | 12.3 | 80                                                                                  |
| 85                                                                               |             |      |      | 21     | 19.4 | 16.3 | 19.5   | 18.2 | 16.2 | 18.6   | 18.2 | 17.4 | 15.6   | 13.9 | 12.9 | 14     | 12.6 | 11.9 | 85                                                                                  |
| 90                                                                               |             |      |      | 19.6   | 18.7 | 16.1 | 18.5   | 17.4 | 16   | 17.5   | 17.4 | 16.8 | 14.9   | 13.3 | 12.5 | 13.4   | 12.2 | 11.5 | 90                                                                                  |
| 95                                                                               |             |      |      | 18.5   | 18.1 | 15.9 | 17.4   | 16.8 | 15.7 | 16.5   | 16.6 | 16.3 | 14.3   | 12.8 | 12.1 | 12.9   | 11.8 | 11.2 | 95                                                                                  |
| 100                                                                              |             |      |      | 17.3   | 17.5 | 15.7 | 16.4   | 16.1 | 15.4 | 15.5   | 15.7 | 15.7 | 13.7   | 12.3 | 11.7 | 12.4   | 11.4 | 10.8 | 100                                                                                 |
| 105                                                                              |             |      |      | 15.7   | 16.5 | 15.6 | 15.5   | 15.5 | 15.1 | 14.6   | 14.9 | 15.1 | 13.1   | 11.9 | 11.4 | 11.9   | 11   | 10.5 | 105                                                                                 |
| 110                                                                              |             |      |      | 14.3   | 15   | 15.3 | 14.7   | 14.7 | 14.7 | 13.7   | 14   | 14.3 | 12.6   | 11.5 | 11   | 11.4   | 10.6 | 10.2 | 110                                                                                 |
| 115                                                                              |             |      |      | 13     | 13.6 | 13.9 | 14     | 14   | 14.1 | 13     | 13.2 | 13.6 | 12     | 11.2 | 10.8 | 10.9   | 10.3 | 10   | 115                                                                                 |
| 120                                                                              |             |      |      | 12.3   | 12.4 | 12.6 | 13.1   | 13.3 | 13.5 | 12.2   | 12.5 | 12.8 | 11.5   | 10.8 | 10.5 | 10.4   | 10.1 | 9.8  | 120                                                                                 |
| 125                                                                              |             |      |      | 11.6   | 11.8 | 12   | 12.1   | 12.5 | 12.8 | 11.1   | 11.7 | 12.1 | 10.8   | 10.5 | 10.3 | 9.9    | 9.8  | 9.6  | 125                                                                                 |
| 130                                                                              |             |      |      | 11     | 11.1 | 11.3 | 11.1   | 11.5 | 11.7 | 10.7   | 10.7 | 11.2 | 10.3   | 10.2 | 10.1 | 9.4    | 9.5  | 9.5  | 130                                                                                 |
| 135                                                                              |             |      |      | 10.5   | 10.6 | 10.6 | 10.2   | 10.5 | 10.7 | 10.3   | 9.8  | 10.2 | 9.6    | 9.9  | 9.9  | 9      | 9.2  | 9.3  | 135                                                                                 |
| 140                                                                              |             |      |      | 10     | 10.1 |      | 9.5    | 9.7  | 9.8  | 9.6    | 9.6  | 9.7  | 8.9    | 9.3  | 9.6  | 8.6    | 8.8  | 9    | 140                                                                                 |
| 145                                                                              |             |      |      | 9.5    | 9.6  |      | 9      | 9.1  | 9.3  | 9      | 9.3  | 9.5  | 8.3    | 8.6  | 9    | 8.2    | 8.4  | 8.6  | 145                                                                                 |
| 150                                                                              |             |      |      |        |      |      | 8.6    | 8.8  | 8.2  | 8.4    | 8.7  | 8.8  | 7.7    | 8    | 8.3  | 7.7    | 8    | 8.2  | 150                                                                                 |
| 155                                                                              |             |      |      |        |      |      | 8.4    | 8.4  |      | 7.9    | 8.1  | 8.2  | 7.2    | 7.5  | 7.7  | 7.2    | 7.5  | 7.6  | 155                                                                                 |
| 160                                                                              |             |      |      |        |      |      | 7.8    |      |      | 7.4    | 7.6  | 7.6  | 6.7    | 6.9  | 7.1  | 6.7    | 6.9  | 7.1  | 160                                                                                 |
| 165                                                                              |             |      |      |        |      |      |        |      |      | 7      | 7.1  |      | 6.2    | 6.4  | 6.6  | 6.2    | 6.4  | 6.5  | 165                                                                                 |
| 170                                                                              |             |      |      |        |      |      |        |      |      | 6.6    | 6.6  |      | 5.8    | 6    | 6.1  | 5.7    | 5.9  | 6    | 170                                                                                 |
| 175                                                                              |             |      |      |        |      |      |        |      |      |        |      |      | 5.4    | 5.5  |      | 5.3    | 5.5  | 5.5  | 175                                                                                 |
| 180                                                                              |             |      |      |        |      |      |        |      |      |        |      |      | 4.9    | 5    |      | 4.8    | 5.1  | 5.1  | 180                                                                                 |
| 185                                                                              |             |      |      |        |      |      |        |      |      |        |      |      | 3.9    |      |      | 4.4    | 4.6  |      | 185                                                                                 |
| 190                                                                              |             |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 4      | 4.1  |      | 190                                                                                 |
| 195                                                                              |             |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 3.6    |      |      | 195                                                                                 |

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# Lifting capacities

## Forces de levage

TK/TNZK



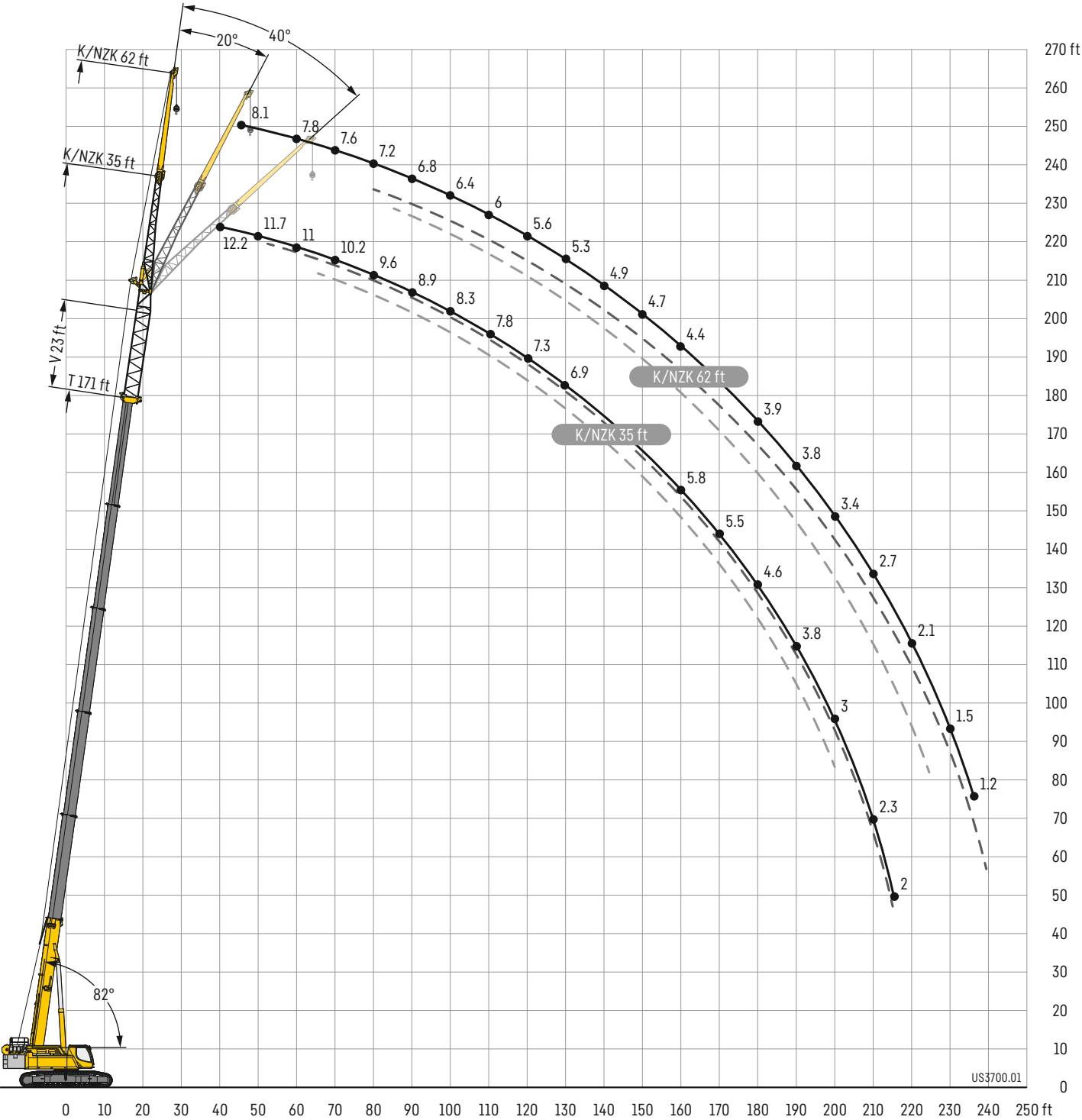
|  | 37 ft       |     |     | 123 ft |     |     | 136 ft |     |     | 148 ft |     |     | 160 ft |     |     | 171 ft |     |     |  |
|----------------------------------------------------------------------------------|-------------|-----|-----|--------|-----|-----|--------|-----|-----|--------|-----|-----|--------|-----|-----|--------|-----|-----|-------------------------------------------------------------------------------------|
|                                                                                  | K/NZK 62 ft |     |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     |                                                                                     |
|                                                                                  | 0°          | 20° | 40° | 0°     | 20° | 40° | 0°     | 20° | 40° | 0°     | 20° | 40° | 0°     | 20° | 40° | 0°     | 20° | 40° |                                                                                     |
| 13                                                                               | 13.8        |     |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 13                                                                                  |
| 14                                                                               | 13.8        |     |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 14                                                                                  |
| 15                                                                               | 13.8        |     |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 15                                                                                  |
| 16                                                                               | 13.8        |     |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 16                                                                                  |
| 17                                                                               | 13.8        |     |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 17                                                                                  |
| 18                                                                               | 13.8        |     |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 18                                                                                  |
| 19                                                                               | 13.6        |     |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 19                                                                                  |
| 20                                                                               | 13.5        |     |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 20                                                                                  |
| 22                                                                               | 13          |     |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 22                                                                                  |
| 24                                                                               | 12.6        |     |     | 15.4   |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 24                                                                                  |
| 26                                                                               | 12.2        |     |     | 15.3   |     |     | 13.7   |     |     |        |     |     |        |     |     |        |     |     | 26                                                                                  |
| 28                                                                               | 11.9        |     |     | 15.1   |     |     | 13.6   |     |     | 12.8   |     |     |        |     |     |        |     |     | 28                                                                                  |
| 30                                                                               | 11.5        | 9.9 |     | 15     |     |     | 13.5   |     |     | 12.7   |     |     |        |     |     |        |     |     | 30                                                                                  |
| 32                                                                               | 11.1        | 9.6 |     | 14.8   |     |     | 13.4   |     |     | 12.6   |     |     | 11.1   |     |     |        |     |     | 32                                                                                  |
| 34                                                                               | 10.7        | 9.4 |     | 14.5   |     |     | 13.2   |     |     | 12.5   |     |     | 11.1   |     |     | 10     |     |     | 34                                                                                  |
| 36                                                                               | 10.4        | 9.2 |     | 14.3   |     |     | 13.1   |     |     | 12.5   |     |     | 11     |     |     | 10     |     |     | 36                                                                                  |
| 38                                                                               | 10.1        | 9   |     | 14.1   |     |     | 13     |     |     | 12.4   |     |     | 11     |     |     | 9.9    |     |     | 38                                                                                  |
| 40                                                                               | 9.8         | 8.8 |     | 13.9   |     |     | 12.8   |     |     | 12.2   |     |     | 10.9   |     |     | 9.9    |     |     | 40                                                                                  |
| 45                                                                               | 9.3         | 8.4 | 7.5 | 13.3   | 9.9 |     | 12.4   |     |     | 11.9   |     |     | 10.7   |     |     | 9.9    |     |     | 45                                                                                  |
| 50                                                                               | 8.8         | 8   | 7.3 | 12.8   | 9.6 |     | 12     | 9.4 |     | 11.7   |     |     | 10.6   |     |     | 9.8    |     |     | 50                                                                                  |
| 55                                                                               | 8.3         | 7.7 | 7.1 | 12.3   | 9.3 |     | 11.6   | 9.1 |     | 11.3   | 9.1 |     | 10.4   | 8.8 |     | 9.7    |     |     | 55                                                                                  |
| 60                                                                               | 7.7         | 7.4 | 7   | 11.8   | 9.1 | 7.6 | 11.2   | 8.9 |     | 10.9   | 8.8 |     | 10.1   | 8.6 |     | 9.6    | 8.4 |     | 60                                                                                  |
| 65                                                                               | 7.2         | 7.2 | 6.8 | 11.2   | 8.8 | 7.4 | 10.8   | 8.6 | 7.4 | 10.6   | 8.6 |     | 9.9    | 8.4 |     | 9.4    | 8.2 |     | 65                                                                                  |
| 70                                                                               | 6.7         | 7   | 6.8 | 10.7   | 8.6 | 7.3 | 10.5   | 8.5 | 7.2 | 10.3   | 8.4 | 7.2 | 9.7    | 8.2 |     | 9.3    | 8.1 |     | 70                                                                                  |
| 75                                                                               | 6.3         | 6.9 | 6.8 | 10.3   | 8.4 | 7.2 | 10.1   | 8.3 | 7.2 | 10     | 8.3 | 7.1 | 9.5    | 8   | 7   | 9.1    | 7.9 | 7   | 75                                                                                  |
| 80                                                                               | 5.9         | 6.8 | 6.8 | 9.9    | 8.2 | 7.1 | 9.7    | 8.1 | 7.1 | 9.7    | 8.1 | 7   | 9.3    | 7.9 | 7   | 9      | 7.8 | 6.9 | 80                                                                                  |
| 85                                                                               | 5.5         | 6.8 | 6.8 | 9.6    | 8   | 7   | 9.4    | 7.9 | 7   | 9.4    | 7.9 | 7   | 9.1    | 7.8 | 6.9 | 8.8    | 7.7 | 6.9 | 85                                                                                  |
| 90                                                                               | 5.2         | 6.8 |     | 9.3    | 7.8 | 7   | 9.2    | 7.8 | 6.9 | 9.2    | 7.8 | 6.9 | 8.9    | 7.7 | 6.9 | 8.7    | 7.6 | 6.8 | 90                                                                                  |
| 95                                                                               |             |     |     | 9.1    | 7.7 | 6.9 | 8.9    | 7.6 | 6.9 | 8.9    | 7.7 | 6.9 | 8.7    | 7.6 | 6.8 | 8.5    | 7.5 | 6.8 | 95                                                                                  |
| 100                                                                              |             |     |     | 8.8    | 7.6 | 6.9 | 8.7    | 7.5 | 6.8 | 8.7    | 7.5 | 6.8 | 8.5    | 7.5 | 6.8 | 8.4    | 7.4 | 6.7 | 100                                                                                 |
| 105                                                                              |             |     |     | 8.5    | 7.4 | 6.8 | 8.4    | 7.4 | 6.8 | 8.5    | 7.4 | 6.8 | 8.4    | 7.4 | 6.7 | 8.2    | 7.3 | 6.7 | 105                                                                                 |
| 110                                                                              |             |     |     | 8.2    | 7.3 | 6.8 | 8.2    | 7.3 | 6.8 | 8.3    | 7.3 | 6.8 | 8.2    | 7.3 | 6.7 | 8      | 7.2 | 6.7 | 110                                                                                 |
| 115                                                                              |             |     |     | 7.9    | 7.2 | 6.8 | 8      | 7.2 | 6.7 | 8.1    | 7.2 | 6.7 | 8      | 7.2 | 6.7 | 7.8    | 7.1 | 6.6 | 115                                                                                 |
| 120                                                                              |             |     |     | 7.6    | 7.1 | 6.8 | 7.7    | 7.1 | 6.7 | 7.9    | 7.1 | 6.7 | 7.8    | 7.1 | 6.7 | 7.7    | 7   | 6.6 | 120                                                                                 |
| 125                                                                              |             |     |     | 7.3    | 7   | 6.8 | 7.5    | 7   | 6.7 | 7.7    | 7.1 | 6.7 | 7.6    | 7   | 6.7 | 7.5    | 6.9 | 6.5 | 125                                                                                 |
| 130                                                                              |             |     |     | 7.1    | 7   | 6.8 | 7.2    | 7   | 6.7 | 7.5    | 7   | 6.7 | 7.4    | 6.9 | 6.7 | 7.3    | 6.7 | 6.5 | 130                                                                                 |
| 135                                                                              |             |     |     | 6.8    | 6.9 | 6.8 | 7      | 6.9 | 6.7 | 7.2    | 6.9 | 6.7 | 7.2    | 6.8 | 6.6 | 7.1    | 6.6 | 6.4 | 135                                                                                 |
| 140                                                                              |             |     |     | 6.6    | 6.9 | 6.8 | 6.8    | 6.9 | 6.7 | 7      | 6.9 | 6.7 | 7      | 6.7 | 6.6 | 6.9    | 6.5 | 6.3 | 140                                                                                 |
| 145                                                                              |             |     |     | 6.4    | 6.8 | 6.8 | 6.5    | 6.8 | 6.7 | 6.8    | 6.8 | 6.7 | 6.8    | 6.6 | 6.5 | 6.7    | 6.3 | 6.2 | 145                                                                                 |
| 150                                                                              |             |     |     | 6.1    | 6.8 | 6.8 | 6.4    | 6.8 | 6.7 | 6.6    | 6.8 | 6.7 | 6.7    | 6.5 | 6.4 | 6.6    | 6.2 | 6.1 | 150                                                                                 |
| 155                                                                              |             |     |     | 6      | 6.8 | 6.8 | 6.2    | 6.8 | 6.7 | 6.4    | 6.8 | 6.7 | 6.5    | 6.4 | 6.4 | 6.4    | 6.1 | 6   | 155                                                                                 |
| 160                                                                              |             |     |     | 5.8    | 6.8 | 6.8 | 6      | 6.8 | 6.7 | 6.2    | 6.7 | 6.7 | 6.3    | 6.3 | 6.3 | 6.2    | 5.9 | 6   | 160                                                                                 |
| 165                                                                              |             |     |     | 5.6    | 6.8 | 6.7 | 5.9    | 6.8 | 6.7 | 6.1    | 6.7 | 6.7 | 6.2    | 6.2 | 6.2 | 6.1    | 5.8 | 5.9 | 165                                                                                 |
| 170                                                                              |             |     |     | 5.5    | 6.8 |     | 5.7    | 6.8 | 6.7 | 5.9    | 6.6 | 6.7 | 6      | 6.1 | 6.2 | 6      | 5.8 | 5.8 | 170                                                                                 |
| 175                                                                              |             |     |     | 5.4    |     |     | 5.6    | 6.7 | 6.7 | 5.7    | 6.1 | 6.3 | 5.8    | 6   | 6.2 | 5.7    | 5.7 | 5.8 | 175                                                                                 |
| 180                                                                              |             |     |     |        |     |     | 5.5    | 6.2 |     | 5.6    | 5.9 | 6.2 | 5.5    | 5.8 | 6   | 5.3    | 5.6 | 5.7 | 180                                                                                 |
| 185                                                                              |             |     |     |        |     |     | 5.4    | 5.9 |     | 5.5    | 5.8 | 6   | 5.1    | 5.4 | 5.6 | 4.9    | 5.3 | 5.5 | 185                                                                                 |
| 190                                                                              |             |     |     |        |     |     |        |     |     | 5.4    | 5.6 |     | 4.7    | 5   | 5.1 | 4.5    | 4.9 | 5.1 | 190                                                                                 |
| 195                                                                              |             |     |     |        |     |     |        |     |     | 5.1    | 5.2 |     | 4.3    | 4.6 | 4.6 | 4.1    | 4.5 | 4.7 | 195                                                                                 |
| 200                                                                              |             |     |     |        |     |     |        |     |     | 3.8    |     |     | 3.9    | 4.2 |     | 3.7    | 4.1 | 4.2 | 200                                                                                 |
| 205                                                                              |             |     |     |        |     |     |        |     |     |        |     |     | 3.6    | 3.8 |     | 3.4    | 3.7 | 3.7 | 205                                                                                 |
| 210                                                                              |             |     |     |        |     |     |        |     |     |        |     |     | 3.3    |     |     | 3      | 3.3 |     | 210                                                                                 |
| 215                                                                              |             |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 2.7    | 2.9 |     | 215                                                                                 |
| 220                                                                              |             |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 2.4    | 2.5 |     | 220                                                                                 |

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# Lifting heights

## Hauteurs de levage

TVK/TVNZK

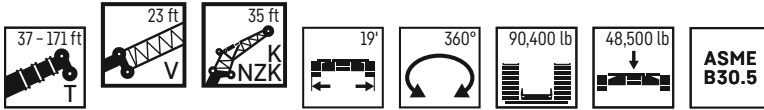




# Lifting capacities

## Forces de levage

TVK/TVNZK



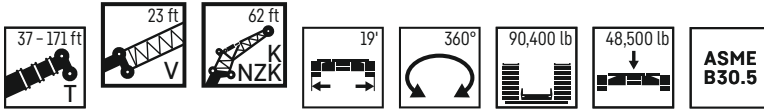
|  | 37 ft + V 23 ft |      |      | 123 ft + V 23 ft |      |      | 136 ft + V 23 ft |      |      | 148 ft + V 23 ft |      |      | 160 ft + V 23 ft |      |      | 171 ft + V 23 ft |      |      |  |
|----------------------------------------------------------------------------------|-----------------|------|------|------------------|------|------|------------------|------|------|------------------|------|------|------------------|------|------|------------------|------|------|-------------------------------------------------------------------------------------|
|                                                                                  | K/NZK 35 ft     |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      |                                                                                     |
|                                                                                  | 0°              | 20°  | 40°  | 0°               | 20°  | 40°  | 0°               | 20°  | 40°  | 0°               | 20°  | 40°  | 0°               | 20°  | 40°  | 0°               | 20°  | 40°  |                                                                                     |
| 11                                                                               | 27.3            |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      | 11                                                                                  |
| 12                                                                               | 26.9            |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      | 12                                                                                  |
| 13                                                                               | 26.6            |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      | 13                                                                                  |
| 14                                                                               | 26.2            |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      | 14                                                                                  |
| 15                                                                               | 25.8            |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      | 15                                                                                  |
| 16                                                                               | 25.4            |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      | 16                                                                                  |
| 17                                                                               | 24.9            |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      | 17                                                                                  |
| 18                                                                               | 24.4            |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      | 18                                                                                  |
| 19                                                                               | 23.9            |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      | 19                                                                                  |
| 20                                                                               | 23.4            | 21.7 |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      | 20                                                                                  |
| 22                                                                               | 22.3            | 20.7 |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      | 22                                                                                  |
| 24                                                                               | 21.3            | 19.7 |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      | 24                                                                                  |
| 26                                                                               | 20.5            | 18.8 |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      | 26                                                                                  |
| 28                                                                               | 19.6            | 18   | 17.2 | 27.3             |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      | 28                                                                                  |
| 30                                                                               | 18.8            | 17.2 | 16.5 | 26.9             |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      | 30                                                                                  |
| 32                                                                               | 18              | 16.5 | 15.9 | 26.5             |      |      | 21.2             |      |      |                  |      |      |                  |      |      |                  |      |      | 32                                                                                  |
| 34                                                                               | 17.2            | 15.9 | 15.3 | 26.1             |      |      | 21.1             |      |      | 17.8             |      |      |                  |      |      |                  |      |      | 34                                                                                  |
| 36                                                                               | 16.4            | 15.3 | 14.7 | 25.7             |      |      | 20.9             |      |      | 17.7             |      |      |                  |      |      |                  |      |      | 36                                                                                  |
| 38                                                                               | 15.7            | 14.7 | 14.2 | 25.1             | 21.1 |      | 20.6             |      |      | 17.5             |      |      | 14.3             |      |      |                  |      |      | 38                                                                                  |
| 40                                                                               | 15.1            | 14.2 | 13.7 | 24.7             | 20.5 |      | 20.4             | 17.8 |      | 17.4             |      |      | 14.2             |      |      |                  | 12.2 |      | 40                                                                                  |
| 45                                                                               | 13.8            | 12.9 | 12.6 | 23.3             | 19.3 | 16.9 | 19.7             | 17   |      | 17.1             | 16.2 |      | 14               |      |      |                  | 12   |      | 45                                                                                  |
| 50                                                                               | 12.5            | 11.8 | 11.6 | 22               | 18.2 | 16.1 | 19               | 16.2 | 14.5 | 16.8             | 15.5 |      | 13.6             | 12.8 |      |                  | 11.7 | 11.2 | 50                                                                                  |
| 55                                                                               | 11.5            | 10.9 | 10.8 | 20.7             | 17.2 | 15.3 | 18.2             | 15.5 | 13.9 | 16.4             | 14.9 | 13.6 | 13.2             | 12.3 |      |                  | 11.4 | 10.8 | 55                                                                                  |
| 60                                                                               | 10.6            | 10.1 | 10.2 | 19.6             | 16.3 | 14.6 | 17.3             | 14.8 | 13.4 | 15.9             | 14.4 | 13.1 | 12.6             | 11.7 | 11   |                  | 11   | 10.4 | 60                                                                                  |
| 65                                                                               | 9.9             | 9.5  | 9.6  | 18.6             | 15.6 | 14   | 16.6             | 14.2 | 12.9 | 15.4             | 13.8 | 12.6 | 12.1             | 11.1 | 10.5 |                  | 10.6 | 10   | 65                                                                                  |
| 70                                                                               | 9.3             | 9.1  | 9.2  | 17.5             | 14.8 | 13.4 | 15.9             | 13.6 | 12.4 | 14.9             | 13.3 | 12.2 | 11.6             | 10.6 | 10   |                  | 10.2 | 9.6  | 70                                                                                  |
| 75                                                                               | 8.8             | 8.7  | 8.9  | 16.5             | 14.1 | 12.9 | 15.1             | 13.1 | 11.9 | 14.4             | 12.8 | 11.8 | 11.1             | 10.1 | 9.7  |                  | 9.9  | 9.3  | 75                                                                                  |
| 80                                                                               | 8.1             | 8.4  | 8.6  | 15.6             | 13.5 | 12.4 | 14.5             | 12.6 | 11.5 | 13.9             | 12.4 | 11.4 | 10.7             | 9.8  | 9.3  |                  | 9.6  | 9    | 80                                                                                  |
| 85                                                                               | 7.5             | 7.7  |      | 14.7             | 12.8 | 11.9 | 13.8             | 12.1 | 11.2 | 13.3             | 12   | 11.1 | 10.2             | 9.4  | 9    |                  | 9.2  | 8.7  | 85                                                                                  |
| 90                                                                               |                 |      |      | 14.1             | 12.2 | 11.5 | 13.1             | 11.6 | 10.8 | 12.8             | 11.5 | 10.8 | 9.8              | 9.1  | 8.8  |                  | 8.9  | 8.4  | 90                                                                                  |
| 95                                                                               |                 |      |      | 13.4             | 11.7 | 11.1 | 12.5             | 11.2 | 10.5 | 12.3             | 11.1 | 10.5 | 9.3              | 8.8  | 8.5  |                  | 8.6  | 8.2  | 95                                                                                  |
| 100                                                                              |                 |      |      | 12.8             | 11.3 | 10.7 | 12               | 10.8 | 10.2 | 11.8             | 10.7 | 10.2 | 9                | 8.5  | 8.2  |                  | 8.3  | 7.9  | 100                                                                                 |
| 105                                                                              |                 |      |      | 12.1             | 10.9 | 10.4 | 11.6             | 10.4 | 9.9  | 11.4             | 10.4 | 9.9  | 8.7              | 8.2  | 8    |                  | 8    | 7.7  | 105                                                                                 |
| 110                                                                              |                 |      |      | 11.6             | 10.5 | 10.1 | 11               | 10.2 | 9.7  | 11               | 10.1 | 9.7  | 8.4              | 7.9  | 7.7  |                  | 7.8  | 7.4  | 110                                                                                 |
| 115                                                                              |                 |      |      | 11.1             | 10.1 | 9.8  | 10.6             | 9.9  | 9.5  | 10.6             | 9.8  | 9.5  | 8.1              | 7.7  | 7.5  |                  | 7.6  | 7.2  | 115                                                                                 |
| 120                                                                              |                 |      |      | 10.7             | 9.8  | 9.6  | 10.2             | 9.6  | 9.3  | 10.2             | 9.6  | 9.3  | 7.9              | 7.5  | 7.3  |                  | 7.3  | 7    | 120                                                                                 |
| 125                                                                              |                 |      |      | 10.3             | 9.5  | 9.4  | 9.8              | 9.4  | 9.1  | 9.8              | 9.4  | 9.2  | 7.6              | 7.3  | 7.1  |                  | 7.1  | 6.8  | 125                                                                                 |
| 130                                                                              |                 |      |      | 9.8              | 9.3  | 9.2  | 9.5              | 9.1  | 9    | 9.5              | 9.2  | 9    | 7.4              | 7    | 6.9  |                  | 6.9  | 6.6  | 130                                                                                 |
| 135                                                                              |                 |      |      | 9.1              | 9.1  | 9.1  | 9.2              | 8.9  | 8.8  | 9.1              | 8.9  | 8.8  | 7.1              | 6.8  | 6.8  |                  | 6.7  | 6.4  | 135                                                                                 |
| 140                                                                              |                 |      |      | 8.6              | 8.8  | 8.9  | 9                | 8.7  | 8.6  | 8.7              | 8.7  | 8.7  | 6.9              | 6.6  | 6.6  |                  | 6.5  | 6.3  | 140                                                                                 |
| 145                                                                              |                 |      |      | 8.3              | 8.2  | 8.4  | 8.7              | 8.5  | 8.5  | 8.1              | 8.4  | 8.5  | 6.7              | 6.5  | 6.4  |                  | 6.3  | 6.1  | 145                                                                                 |
| 150                                                                              |                 |      |      | 8                | 8    | 8.2  | 8.1              | 8.3  | 8.3  | 7.5              | 7.9  | 8.1  | 6.5              | 6.3  | 6.3  |                  | 6.1  | 5.9  | 150                                                                                 |
| 155                                                                              |                 |      |      | 7.7              | 7.7  | 7.9  | 7.6              | 7.9  | 8    | 7                | 7.3  | 7.5  | 6.4              | 6.2  | 6.2  |                  | 6    | 5.8  | 155                                                                                 |
| 160                                                                              |                 |      |      | 7.3              | 7.4  | 7.5  | 7.1              | 7.4  | 7.5  | 6.5              | 6.8  | 6.9  | 6.2              | 6    | 6    |                  | 5.8  | 5.7  | 160                                                                                 |
| 165                                                                              |                 |      |      | 7                | 7.1  |      | 6.6              | 6.9  | 6.9  | 6                | 6.2  | 6.4  | 6                | 5.9  | 5.9  |                  | 5.7  | 5.6  | 165                                                                                 |
| 170                                                                              |                 |      |      | 6.8              |      |      | 6.2              | 6.4  | 6.4  | 5.7              | 5.8  | 5.8  | 5.7              | 5.7  | 5.8  |                  | 5.5  | 5.5  | 170                                                                                 |
| 175                                                                              |                 |      |      |                  |      |      | 5.8              | 6    |      | 5.6              | 5.5  | 5.7  | 5.3              | 5.5  | 5.6  |                  | 5.1  | 5.3  | 175                                                                                 |
| 180                                                                              |                 |      |      |                  |      |      | 5.4              | 5.5  |      | 5.5              | 5.5  | 5.6  | 4.8              | 5.1  | 5.1  |                  | 4.6  | 4.9  | 180                                                                                 |
| 185                                                                              |                 |      |      |                  |      |      |                  |      |      | 5.1              | 5.3  |      | 4.4              | 4.6  | 4.7  |                  | 4.2  | 4.5  | 185                                                                                 |
| 190                                                                              |                 |      |      |                  |      |      |                  |      |      | 4.7              | 4.8  |      | 3.9              | 4.1  | 4.2  |                  | 3.8  | 4    | 190                                                                                 |
| 195                                                                              |                 |      |      |                  |      |      |                  |      |      | 4.2              |      |      | 3.5              | 3.7  |      |                  | 3.4  | 3.6  | 195                                                                                 |
| 200                                                                              |                 |      |      |                  |      |      |                  |      |      |                  |      |      | 3.2              | 3.3  |      |                  | 3    | 3.2  | 200                                                                                 |
| 205                                                                              |                 |      |      |                  |      |      |                  |      |      |                  |      |      | 2.8              | 2.9  |      |                  | 2.7  | 2.8  | 205                                                                                 |
| 210                                                                              |                 |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      |                  | 2.3  | 2.4  | 210                                                                                 |
| 215                                                                              |                 |      |      |                  |      |      |                  |      |      |                  |      |      |                  |      |      |                  | 2    | 2.1  | 215                                                                                 |

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# Lifting capacities

## Forces de levage

TVK/TVNZK



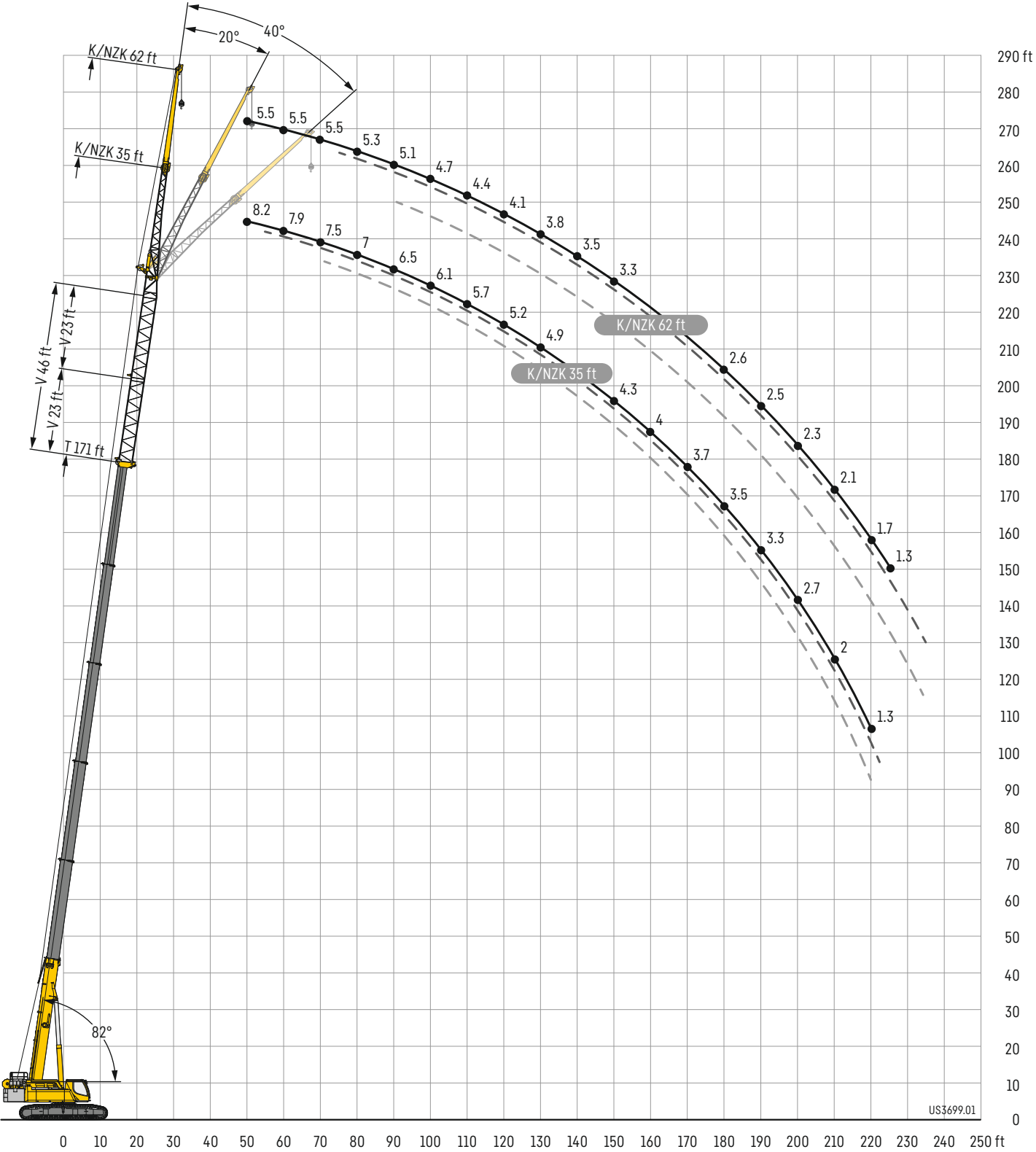
|  | 37 ft + V 23 ft |     |     | 123 ft + V 23 ft |     |     | 136 ft + V 23 ft |     |     | 148 ft + V 23 ft |     |     | 160 ft + V 23 ft |     |     | 171 ft + V 23 ft |     |     |  |
|----------------------------------------------------------------------------------|-----------------|-----|-----|------------------|-----|-----|------------------|-----|-----|------------------|-----|-----|------------------|-----|-----|------------------|-----|-----|-------------------------------------------------------------------------------------|
|                                                                                  | K/NZK 62 ft     |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                                                                                     |
|                                                                                  | 0°              | 20° | 40° | 0°               | 20° | 40° | 0°               | 20° | 40° | 0°               | 20° | 40° | 0°               | 20° | 40° | 0°               | 20° | 40° |                                                                                     |
| 15                                                                               | 11.5            |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 15                                                                                  |
| 16                                                                               | 11.5            |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 16                                                                                  |
| 17                                                                               | 11.5            |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 17                                                                                  |
| 18                                                                               | 11.5            |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 18                                                                                  |
| 19                                                                               | 11.5            |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 19                                                                                  |
| 20                                                                               | 11.5            |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 20                                                                                  |
| 22                                                                               | 11.5            |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 22                                                                                  |
| 24                                                                               | 11.5            |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 24                                                                                  |
| 26                                                                               | 11.5            |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 26                                                                                  |
| 28                                                                               | 11.5            |     |     | 13.3             |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 28                                                                                  |
| 30                                                                               | 11.5            |     |     | 13.3             |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 30                                                                                  |
| 32                                                                               | 11.4            | 9.7 |     | 13.2             |     |     | 11.2             |     |     |                  |     |     |                  |     |     |                  |     |     | 32                                                                                  |
| 34                                                                               | 11.1            | 9.6 |     | 13.1             |     |     | 11.2             |     |     | 10.4             |     |     |                  |     |     |                  |     |     | 34                                                                                  |
| 36                                                                               | 10.9            | 9.4 |     | 13               |     |     | 11.1             |     |     | 10.3             |     |     |                  |     |     |                  |     |     | 36                                                                                  |
| 38                                                                               | 10.7            | 9.2 |     | 12.9             |     |     | 11.1             |     |     | 10.3             |     |     | 9                |     |     |                  |     |     | 38                                                                                  |
| 40                                                                               | 10.5            | 9   |     | 12.8             |     |     | 11               |     |     | 10.3             |     |     | 9                |     |     |                  |     |     | 40                                                                                  |
| 45                                                                               | 9.9             | 8.6 |     | 12.4             |     |     | 10.9             |     |     | 10.2             |     |     | 8.9              |     |     | 8.1              |     |     | 45                                                                                  |
| 50                                                                               | 9.4             | 8.3 | 7.4 | 12.1             | 9.6 |     | 10.7             |     |     | 10.1             |     |     | 8.8              |     |     | 8                |     |     | 50                                                                                  |
| 55                                                                               | 8.8             | 8.1 | 7.2 | 11.7             | 9.3 |     | 10.5             | 8.9 |     | 9.9              |     |     | 8.8              |     |     | 7.9              |     |     | 55                                                                                  |
| 60                                                                               | 8.3             | 7.8 | 7.1 | 11.4             | 9.1 |     | 10.2             | 8.7 |     | 9.8              | 8.6 |     | 8.6              |     |     | 7.8              |     |     | 60                                                                                  |
| 65                                                                               | 7.8             | 7.5 | 6.9 | 11               | 8.8 | 7.4 | 10               | 8.5 |     | 9.7              | 8.4 |     | 8.5              | 8   |     | 7.7              |     |     | 65                                                                                  |
| 70                                                                               | 7.4             | 7.1 | 6.8 | 10.7             | 8.6 | 7.3 | 9.8              | 8.3 | 7.2 | 9.5              | 8.3 |     | 8.3              | 7.8 |     | 7.6              | 7.2 |     | 70                                                                                  |
| 75                                                                               | 6.9             | 6.8 | 6.6 | 10.4             | 8.4 | 7.2 | 9.6              | 8.2 | 7.1 | 9.2              | 8.1 | 7.1 | 8.2              | 7.6 |     | 7.4              | 7   |     | 75                                                                                  |
| 80                                                                               | 6.6             | 6.4 | 6.4 | 10               | 8.3 | 7.2 | 9.3              | 8   | 7   | 9                | 8   | 7   | 7.9              | 7.4 | 6.8 | 7.2              | 6.8 |     | 80                                                                                  |
| 85                                                                               | 6.3             | 6.1 | 6.1 | 9.7              | 8.1 | 7.1 | 9                | 7.9 | 7   | 8.8              | 7.8 | 6.9 | 7.7              | 7.1 | 6.6 | 7                | 6.6 | 6.2 | 85                                                                                  |
| 90                                                                               | 6               | 5.9 | 5.9 | 9.4              | 8   | 7   | 8.8              | 7.7 | 6.9 | 8.6              | 7.7 | 6.9 | 7.5              | 6.9 | 6.4 | 6.8              | 6.3 | 6.1 | 90                                                                                  |
| 95                                                                               | 5.7             | 5.6 | 5.7 | 9.1              | 7.8 | 6.9 | 8.5              | 7.5 | 6.8 | 8.3              | 7.5 | 6.8 | 7.2              | 6.6 | 6.3 | 6.6              | 6.2 | 5.9 | 95                                                                                  |
| 100                                                                              | 5.5             | 5.4 | 5.6 | 8.8              | 7.6 | 6.8 | 8.3              | 7.3 | 6.8 | 8.1              | 7.3 | 6.8 | 6.9              | 6.4 | 6.1 | 6.4              | 6   | 5.7 | 100                                                                                 |
| 105                                                                              | 5.3             | 5.3 | 5.5 | 8.5              | 7.5 | 6.8 | 8                | 7.2 | 6.7 | 7.9              | 7.1 | 6.6 | 6.7              | 6.2 | 5.9 | 6.2              | 5.8 | 5.6 | 105                                                                                 |
| 110                                                                              | 5.2             | 5.2 |     | 8.2              | 7.3 | 6.7 | 7.7              | 7   | 6.5 | 7.7              | 7   | 6.5 | 6.5              | 6   | 5.8 | 6                | 5.6 | 5.4 | 110                                                                                 |
| 115                                                                              |                 |     |     | 7.9              | 7.1 | 6.6 | 7.5              | 6.8 | 6.4 | 7.5              | 6.8 | 6.4 | 6.2              | 5.8 | 5.6 | 5.8              | 5.5 | 5.3 | 115                                                                                 |
| 120                                                                              |                 |     |     | 7.6              | 6.9 | 6.4 | 7.3              | 6.6 | 6.3 | 7.3              | 6.6 | 6.3 | 6                | 5.7 | 5.5 | 5.6              | 5.3 | 5.1 | 120                                                                                 |
| 125                                                                              |                 |     |     | 7.3              | 6.7 | 6.3 | 7.1              | 6.5 | 6.1 | 7.1              | 6.4 | 6.1 | 5.8              | 5.5 | 5.3 | 5.4              | 5.1 | 5   | 125                                                                                 |
| 130                                                                              |                 |     |     | 7.1              | 6.5 | 6.2 | 6.9              | 6.3 | 6   | 6.9              | 6.3 | 6   | 5.7              | 5.3 | 5.2 | 5.3              | 5   | 4.9 | 130                                                                                 |
| 135                                                                              |                 |     |     | 6.9              | 6.3 | 6.1 | 6.7              | 6.2 | 5.9 | 6.7              | 6.2 | 5.9 | 5.5              | 5.2 | 5   | 5.1              | 4.8 | 4.7 | 135                                                                                 |
| 140                                                                              |                 |     |     | 6.7              | 6.2 | 6   | 6.5              | 6   | 5.8 | 6.5              | 6.1 | 5.8 | 5.3              | 5   | 4.9 | 4.9              | 4.7 | 4.6 | 140                                                                                 |
| 145                                                                              |                 |     |     | 6.5              | 6   | 5.9 | 6.3              | 5.9 | 5.7 | 6.4              | 5.9 | 5.7 | 5.1              | 4.9 | 4.8 | 4.8              | 4.6 | 4.5 | 145                                                                                 |
| 150                                                                              |                 |     |     | 6.3              | 5.9 | 5.8 | 6.2              | 5.8 | 5.6 | 6.2              | 5.8 | 5.7 | 5                | 4.7 | 4.7 | 4.7              | 4.5 | 4.4 | 150                                                                                 |
| 155                                                                              |                 |     |     | 6.1              | 5.7 | 5.7 | 6                | 5.7 | 5.6 | 6.1              | 5.7 | 5.6 | 4.8              | 4.6 | 4.6 | 4.5              | 4.3 | 4.3 | 155                                                                                 |
| 160                                                                              |                 |     |     | 6                | 5.6 | 5.6 | 5.9              | 5.6 | 5.5 | 5.9              | 5.6 | 5.5 | 4.7              | 4.5 | 4.5 | 4.4              | 4.2 | 4.2 | 160                                                                                 |
| 165                                                                              |                 |     |     | 5.8              | 5.5 | 5.6 | 5.7              | 5.5 | 5.5 | 5.8              | 5.5 | 5.4 | 4.6              | 4.4 | 4.4 | 4.3              | 4.1 | 4.1 | 165                                                                                 |
| 170                                                                              |                 |     |     | 5.7              | 5.4 | 5.5 | 5.6              | 5.4 | 5.4 | 5.7              | 5.4 | 5.4 | 4.4              | 4.3 | 4.3 | 4.2              | 4   | 4   | 170                                                                                 |
| 175                                                                              |                 |     |     | 5.5              | 5.3 | 5.5 | 5.5              | 5.3 | 5.4 | 5.5              | 5.3 | 5.3 | 4.3              | 4.2 | 4.2 | 4                | 3.9 | 3.9 | 175                                                                                 |
| 180                                                                              |                 |     |     | 5.3              | 5.3 | 5.5 | 5.4              | 5.2 | 5.4 | 5.1              | 5.2 | 5.3 | 4.2              | 4.1 | 4.1 | 3.9              | 3.8 | 3.8 | 180                                                                                 |
| 185                                                                              |                 |     |     | 5.2              | 5.1 | 5.4 | 5.3              | 5.2 | 5.4 | 4.7              | 5.1 | 5.3 | 4.1              | 4   | 4   | 3.8              | 3.7 | 3.8 | 185                                                                                 |
| 190                                                                              |                 |     |     | 5.1              | 5.1 |     | 5.1              | 5.1 | 5.3 | 4.3              | 4.8 | 4.9 | 4                | 3.9 | 4   | 3.8              | 3.6 | 3.7 | 190                                                                                 |
| 195                                                                              |                 |     |     | 5                | 5.1 |     | 4.7              | 5   | 5   | 3.9              | 4.3 | 4.5 | 3.9              | 3.8 | 3.9 | 3.6              | 3.6 | 3.6 | 195                                                                                 |
| 200                                                                              |                 |     |     |                  |     |     | 4.3              | 4.6 |     | 3.7              | 3.9 | 4   | 3.6              | 3.7 | 3.9 | 3.4              | 3.5 | 3.6 | 200                                                                                 |
| 205                                                                              |                 |     |     |                  |     |     | 4                | 4.1 |     | 3.6              | 3.6 | 3.8 | 3.3              | 3.6 | 3.8 | 3.1              | 3.4 | 3.5 | 205                                                                                 |
| 210                                                                              |                 |     |     |                  |     |     | 3.5              |     |     | 3.6              | 3.6 |     | 2.9              | 3.3 | 3.4 | 2.7              | 3.2 | 3.3 | 210                                                                                 |
| 215                                                                              |                 |     |     |                  |     |     |                  |     |     | 3.4              | 3.5 |     | 2.6              | 2.9 | 2.9 | 2.4              | 2.8 | 2.9 | 215                                                                                 |
| 220                                                                              |                 |     |     |                  |     |     |                  |     |     | 3.1              | 3.2 |     | 2.3              | 2.5 |     | 2.1              | 2.4 | 2.5 | 220                                                                                 |
| 225                                                                              |                 |     |     |                  |     |     |                  |     |     |                  |     |     | 2                | 2.2 |     | 1.8              | 2.1 | 2.1 | 225                                                                                 |
| 230                                                                              |                 |     |     |                  |     |     |                  |     |     |                  |     |     | 1.7              | 1.9 |     | 1.5              | 1.8 |     | 230                                                                                 |
| 235                                                                              |                 |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 1.2              | 1.4 |     | 235                                                                                 |
| 240                                                                              |                 |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  | 1.1 |     | 240                                                                                 |

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# Lifting heights

## Hauteurs de levage

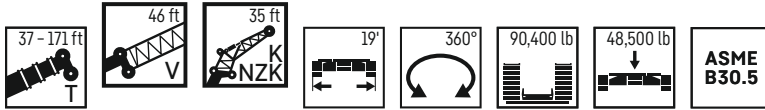
TVK/TVNZK



# Lifting capacities

## Forces de levage

TVK/TVNZK

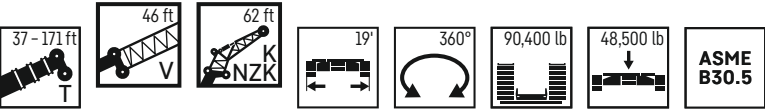


|  | 37 ft + V 46 ft |      |      | 123 ft + V 46 ft |      |      | 136 ft + V 46 ft |      |      | 148 ft + V 46 ft |      |     | 160 ft + V 46 ft |     |     | 171 ft + V 46 ft |     |     |  |
|----------------------------------------------------------------------------------|-----------------|------|------|------------------|------|------|------------------|------|------|------------------|------|-----|------------------|-----|-----|------------------|-----|-----|-------------------------------------------------------------------------------------|
|                                                                                  | K/NZK 35 ft     |      |      |                  |      |      |                  |      |      |                  |      |     |                  |     |     |                  |     |     |                                                                                     |
|                                                                                  | 0°              | 20°  | 40°  | 0°               | 20°  | 40°  | 0°               | 20°  | 40°  | 0°               | 20°  | 40° | 0°               | 20° | 40° | 0°               | 20° | 40° |                                                                                     |
| 14                                                                               | 17.8            |      |      |                  |      |      |                  |      |      |                  |      |     |                  |     |     |                  |     |     | 14                                                                                  |
| 15                                                                               | 17.7            |      |      |                  |      |      |                  |      |      |                  |      |     |                  |     |     |                  |     |     | 15                                                                                  |
| 16                                                                               | 17.5            |      |      |                  |      |      |                  |      |      |                  |      |     |                  |     |     |                  |     |     | 16                                                                                  |
| 17                                                                               | 17.3            |      |      |                  |      |      |                  |      |      |                  |      |     |                  |     |     |                  |     |     | 17                                                                                  |
| 18                                                                               | 17              |      |      |                  |      |      |                  |      |      |                  |      |     |                  |     |     |                  |     |     | 18                                                                                  |
| 19                                                                               | 16.8            |      |      |                  |      |      |                  |      |      |                  |      |     |                  |     |     |                  |     |     | 19                                                                                  |
| 20                                                                               | 16.5            |      |      |                  |      |      |                  |      |      |                  |      |     |                  |     |     |                  |     |     | 20                                                                                  |
| 22                                                                               | 16              |      |      |                  |      |      |                  |      |      |                  |      |     |                  |     |     |                  |     |     | 22                                                                                  |
| 24                                                                               | 15.5            | 15.3 |      |                  |      |      |                  |      |      |                  |      |     |                  |     |     |                  |     |     | 24                                                                                  |
| 26                                                                               | 14.9            | 14.6 |      |                  |      |      |                  |      |      |                  |      |     |                  |     |     |                  |     |     | 26                                                                                  |
| 28                                                                               | 14.4            | 14   |      |                  |      |      |                  |      |      |                  |      |     |                  |     |     |                  |     |     | 28                                                                                  |
| 30                                                                               | 13.8            | 13.4 |      |                  |      |      |                  |      |      |                  |      |     |                  |     |     |                  |     |     | 30                                                                                  |
| 32                                                                               | 13.2            | 12.8 |      | 17.6             |      |      |                  |      |      |                  |      |     |                  |     |     |                  |     |     | 32                                                                                  |
| 34                                                                               | 12.7            | 12.3 | 12.1 | 17.3             |      |      |                  |      |      |                  |      |     |                  |     |     |                  |     |     | 34                                                                                  |
| 36                                                                               | 12.3            | 11.8 | 11.6 | 17.1             |      |      | 13.2             |      |      |                  |      |     |                  |     |     |                  |     |     | 36                                                                                  |
| 38                                                                               | 11.8            | 11.3 | 11.1 | 16.8             |      |      | 13.1             |      |      |                  |      |     |                  |     |     |                  |     |     | 38                                                                                  |
| 40                                                                               | 11.3            | 10.8 | 10.7 | 16.5             | 15.2 |      | 13               |      |      | 11.8             |      |     |                  |     |     |                  |     |     | 40                                                                                  |
| 45                                                                               | 10.2            | 9.9  | 9.8  | 15.8             | 14.3 |      | 12.6             | 11.9 |      | 11.5             |      |     | 9.4              |     |     |                  |     |     | 45                                                                                  |
| 50                                                                               | 9.3             | 9.2  | 9    | 15               | 13.4 | 12.2 | 12.1             | 11.4 |      | 11.2             | 10.6 |     | 9.2              |     |     | 8.2              |     |     | 50                                                                                  |
| 55                                                                               | 8.6             | 8.5  | 8.5  | 14.1             | 12.6 | 11.5 | 11.7             | 10.8 | 10.1 | 10.8             | 10.2 |     | 9                | 8.8 |     | 8.1              | 8   |     | 55                                                                                  |
| 60                                                                               | 8               | 7.9  | 7.9  | 13.3             | 11.8 | 10.8 | 11.2             | 10.3 | 9.7  | 10.4             | 9.9  | 9.4 | 8.9              | 8.6 |     | 7.9              | 7.7 |     | 60                                                                                  |
| 65                                                                               | 7.5             | 7.4  | 7.4  | 12.6             | 11.1 | 10.2 | 10.7             | 9.8  | 9.3  | 10               | 9.5  | 9.1 | 8.6              | 8.3 | 8   | 7.7              | 7.5 |     | 65                                                                                  |
| 70                                                                               | 7               | 6.9  | 6.9  | 11.9             | 10.5 | 9.8  | 10.2             | 9.4  | 9    | 9.7              | 9.2  | 8.8 | 8.4              | 8   | 7.8 | 7.5              | 7.3 | 7.1 | 70                                                                                  |
| 75                                                                               | 6.6             | 6.5  | 6.5  | 11.2             | 10   | 9.4  | 9.8              | 9.1  | 8.6  | 9.4              | 8.9  | 8.5 | 8                | 7.7 | 7.5 | 7.2              | 7   | 6.9 | 75                                                                                  |
| 80                                                                               | 6.2             | 6.1  | 6.2  | 10.6             | 9.6  | 9    | 9.5              | 8.8  | 8.3  | 9.1              | 8.6  | 8.2 | 7.7              | 7.4 | 7.2 | 7                | 6.7 | 6.6 | 80                                                                                  |
| 85                                                                               | 5.9             | 5.8  | 5.9  | 10               | 9.2  | 8.7  | 9.1              | 8.4  | 8.1  | 8.8              | 8.3  | 7.9 | 7.4              | 7.1 | 6.9 | 6.7              | 6.5 | 6.4 | 85                                                                                  |
| 90                                                                               | 5.6             | 5.5  | 5.6  | 9.4              | 8.8  | 8.4  | 8.7              | 8.1  | 7.8  | 8.5              | 8    | 7.7 | 7.2              | 6.8 | 6.7 | 6.5              | 6.3 | 6.2 | 90                                                                                  |
| 95                                                                               | 5.3             | 5.3  | 5.3  | 9                | 8.4  | 8.1  | 8.3              | 7.8  | 7.6  | 8.3              | 7.8  | 7.5 | 6.9              | 6.6 | 6.4 | 6.3              | 6   | 5.9 | 95                                                                                  |
| 100                                                                              | 5               | 5    | 5.1  | 8.6              | 8    | 7.8  | 8                | 7.6  | 7.3  | 8                | 7.5  | 7.2 | 6.6              | 6.4 | 6.2 | 6.1              | 5.8 | 5.7 | 100                                                                                 |
| 105                                                                              | 4.8             | 4.9  | 5    | 8.3              | 7.8  | 7.5  | 7.7              | 7.3  | 7.1  | 7.7              | 7.3  | 7   | 6.4              | 6.1 | 6   | 5.9              | 5.6 | 5.6 | 105                                                                                 |
| 110                                                                              |                 |      |      | 8                | 7.5  | 7.2  | 7.5              | 7.1  | 6.9  | 7.5              | 7    | 6.9 | 6.1              | 5.9 | 5.8 | 5.7              | 5.5 | 5.4 | 110                                                                                 |
| 115                                                                              |                 |      |      | 7.6              | 7.2  | 7    | 7.2              | 6.8  | 6.7  | 7.2              | 6.8  | 6.6 | 5.9              | 5.7 | 5.6 | 5.4              | 5.3 | 5.2 | 115                                                                                 |
| 120                                                                              |                 |      |      | 7.3              | 7    | 6.8  | 7                | 6.6  | 6.5  | 7                | 6.6  | 6.5 | 5.6              | 5.5 | 5.4 | 5.2              | 5.1 | 5   | 120                                                                                 |
| 125                                                                              |                 |      |      | 7.1              | 6.7  | 6.6  | 6.8              | 6.4  | 6.3  | 6.8              | 6.4  | 6.3 | 5.4              | 5.3 | 5.2 | 5.1              | 4.9 | 4.9 | 125                                                                                 |
| 130                                                                              |                 |      |      | 6.8              | 6.5  | 6.4  | 6.5              | 6.3  | 6.1  | 6.6              | 6.3  | 6.1 | 5.3              | 5.1 | 5   | 4.9              | 4.7 | 4.7 | 130                                                                                 |
| 135                                                                              |                 |      |      | 6.6              | 6.3  | 6.2  | 6.3              | 6.1  | 6    | 6.4              | 6.1  | 6   | 5.1              | 4.9 | 4.9 | 4.7              | 4.6 | 4.5 | 135                                                                                 |
| 140                                                                              |                 |      |      | 6.4              | 6.1  | 6    | 6.1              | 5.9  | 5.8  | 6.2              | 5.9  | 5.9 | 4.9              | 4.8 | 4.7 | 4.6              | 4.4 | 4.4 | 140                                                                                 |
| 145                                                                              |                 |      |      | 6.2              | 5.9  | 5.9  | 5.9              | 5.8  | 5.7  | 6                | 5.8  | 5.7 | 4.7              | 4.6 | 4.6 | 4.4              | 4.3 | 4.3 | 145                                                                                 |
| 150                                                                              |                 |      |      | 6                | 5.7  | 5.7  | 5.8              | 5.6  | 5.6  | 5.9              | 5.6  | 5.6 | 4.6              | 4.5 | 4.5 | 4.3              | 4.2 | 4.1 | 150                                                                                 |
| 155                                                                              |                 |      |      | 5.8              | 5.6  | 5.5  | 5.6              | 5.5  | 5.4  | 5.7              | 5.5  | 5.5 | 4.4              | 4.3 | 4.3 | 4.1              | 4   | 4   | 155                                                                                 |
| 160                                                                              |                 |      |      | 5.6              | 5.4  | 5.4  | 5.5              | 5.3  | 5.3  | 5.6              | 5.4  | 5.3 | 4.3              | 4.2 | 4.2 | 4                | 3.9 | 3.9 | 160                                                                                 |
| 165                                                                              |                 |      |      | 5.4              | 5.3  | 5.3  | 5.3              | 5.2  | 5.2  | 5.4              | 5.3  | 5.3 | 4.1              | 4.1 | 4.1 | 3.9              | 3.8 | 3.8 | 165                                                                                 |
| 170                                                                              |                 |      |      | 5.2              | 5.2  | 5.2  | 5.2              | 5.1  | 5.1  | 5.2              | 5.1  | 5.2 | 4                | 3.9 | 3.9 | 3.7              | 3.7 | 3.7 | 170                                                                                 |
| 175                                                                              |                 |      |      | 5                | 4.9  | 5    | 5.1              | 5    | 5    | 4.9              | 5    | 5.1 | 3.9              | 3.8 | 3.8 | 3.6              | 3.6 | 3.6 | 175                                                                                 |
| 180                                                                              |                 |      |      | 4.9              | 4.8  | 5    | 5                | 4.9  | 5    | 4.4              | 4.7  | 4.9 | 3.8              | 3.7 | 3.7 | 3.5              | 3.5 | 3.5 | 180                                                                                 |
| 185                                                                              |                 |      |      | 4.8              | 4.7  |      | 4.8              | 4.8  | 4.9  | 4                | 4.3  | 4.4 | 3.7              | 3.6 | 3.6 | 3.4              | 3.4 | 3.4 | 185                                                                                 |
| 190                                                                              |                 |      |      | 4.7              | 4.7  |      | 4.3              | 4.5  | 4.5  | 3.5              | 3.8  | 3.9 | 3.6              | 3.5 | 3.5 | 3.3              | 3.3 | 3.3 | 190                                                                                 |
| 195                                                                              |                 |      |      | 2.7              |      |      | 3.9              | 4.1  |      | 3.4              | 3.4  | 3.4 | 3.3              | 3.4 | 3.5 | 3.1              | 3.2 | 3.2 | 195                                                                                 |
| 200                                                                              |                 |      |      |                  |      |      | 3.6              | 3.7  |      | 3.3              | 3.3  | 3.3 | 2.9              | 3.2 | 3.2 | 2.7              | 3   | 3   | 200                                                                                 |
| 205                                                                              |                 |      |      |                  |      |      | 3.2              |      |      | 3.2              | 3.2  |     | 2.5              | 2.8 | 2.8 | 2.3              | 2.6 | 2.7 | 205                                                                                 |
| 210                                                                              |                 |      |      |                  |      |      |                  |      |      | 3                | 3.1  |     | 2.2              | 2.4 | 2.4 | 2                | 2.2 | 2.3 | 210                                                                                 |
| 215                                                                              |                 |      |      |                  |      |      |                  |      |      | 2.7              | 2.7  |     | 1.9              | 2.1 |     | 1.7              | 1.9 | 1.9 | 215                                                                                 |
| 220                                                                              |                 |      |      |                  |      |      |                  |      |      |                  |      |     | 1.6              | 1.7 |     | 1.3              | 1.5 | 1.6 | 220                                                                                 |
| 225                                                                              |                 |      |      |                  |      |      |                  |      |      |                  |      |     | 1.3              | 1.4 |     |                  | 1.1 |     | 225                                                                                 |
| 230                                                                              |                 |      |      |                  |      |      |                  |      |      |                  |      |     | 1                |     |     |                  |     |     | 230                                                                                 |

maxt\_307\_006\_11224\_00\_000

Lifting capacities  
Forces de levage

TVK/TVNZK



|  | 37 ft + V 46 ft |     |     | 123 ft + V 46 ft |     |     | 136 ft + V 46 ft |     |     | 148 ft + V 46 ft |     |     | 160 ft + V 46 ft |     |     | 171 ft + V 46 ft |     |      |  |
|----------------------------------------------------------------------------------|-----------------|-----|-----|------------------|-----|-----|------------------|-----|-----|------------------|-----|-----|------------------|-----|-----|------------------|-----|------|-------------------------------------------------------------------------------------|
|                                                                                  | K/NZK 62 ft     |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |      |                                                                                     |
|                                                                                  | 0°              | 20° | 40° | 0°               | 20° | 40° | 0°               | 20° | 40° | 0°               | 20° | 40° | 0°               | 20° | 40° | 0°               | 20° | 40°* |                                                                                     |
| 17                                                                               | 9               |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |      | 17                                                                                  |
| 18                                                                               | 9               |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |      | 18                                                                                  |
| 19                                                                               | 9               |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |      | 19                                                                                  |
| 20                                                                               | 9               |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |      | 20                                                                                  |
| 22                                                                               | 9               |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |      | 22                                                                                  |
| 24                                                                               | 9               |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |      | 24                                                                                  |
| 26                                                                               | 9               |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |      | 26                                                                                  |
| 28                                                                               | 9               |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |      | 28                                                                                  |
| 30                                                                               | 9               |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |      | 30                                                                                  |
| 32                                                                               | 9               |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |      | 32                                                                                  |
| 34                                                                               | 9               |     |     | 10.9             |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |      | 34                                                                                  |
| 36                                                                               | 9               |     |     | 10.8             |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |      | 36                                                                                  |
| 38                                                                               | 8.9             | 9   |     | 10.7             |     |     | 8.7              |     |     |                  |     |     |                  |     |     |                  |     |      | 38                                                                                  |
| 40                                                                               | 8.7             | 8.7 |     | 10.6             |     |     | 8.7              |     |     | 8                |     |     |                  |     |     |                  |     |      | 40                                                                                  |
| 45                                                                               | 8.2             | 8.1 |     | 10.3             |     |     | 8.5              |     |     | 7.9              |     |     | 6.7              |     |     |                  |     |      | 45                                                                                  |
| 50                                                                               | 7.6             | 7.6 |     | 9.9              |     |     | 8.3              |     |     | 7.8              |     |     | 6.6              |     |     | 5.5              |     |      | 50                                                                                  |
| 55                                                                               | 7.1             | 7   | 7   | 9.5              |     |     | 8.1              |     |     | 7.6              |     |     | 6.5              |     |     | 5.5              |     |      | 55                                                                                  |
| 60                                                                               | 6.6             | 6.6 | 6.6 | 9.2              | 8.5 |     | 7.9              |     |     | 7.4              |     |     | 6.4              |     |     | 5.5              |     |      | 60                                                                                  |
| 65                                                                               | 6.2             | 6.2 | 6.2 | 8.9              | 8.1 |     | 7.6              | 7.2 |     | 7.2              | 6.9 |     | 6.2              |     |     | 5.5              |     |      | 65                                                                                  |
| 70                                                                               | 5.8             | 5.8 | 5.8 | 8.5              | 7.8 |     | 7.4              | 7   |     | 7                | 6.7 |     | 6.1              | 5.9 |     | 5.5              |     |      | 70                                                                                  |
| 75                                                                               | 5.5             | 5.4 | 5.5 | 8.2              | 7.4 | 6.9 | 7.2              | 6.8 |     | 6.8              | 6.5 |     | 6                | 5.8 |     | 5.4              | 5.3 |      | 75                                                                                  |
| 80                                                                               | 5.1             | 5.1 | 5.2 | 7.9              | 7.1 | 6.6 | 6.9              | 6.5 | 6.1 | 6.6              | 6.3 |     | 5.8              | 5.6 |     | 5.3              | 5.2 |      | 80                                                                                  |
| 85                                                                               | 4.8             | 4.8 | 4.9 | 7.6              | 6.8 | 6.3 | 6.7              | 6.3 | 5.9 | 6.4              | 6.1 | 5.8 | 5.7              | 5.5 |     | 5.2              | 5   |      | 85                                                                                  |
| 90                                                                               | 4.5             | 4.6 | 4.6 | 7.3              | 6.6 | 6.1 | 6.5              | 6   | 5.7 | 6.2              | 5.9 | 5.6 | 5.6              | 5.3 | 5.1 | 5.1              | 4.9 | 4.8  | 90                                                                                  |
| 95                                                                               | 4.3             | 4.3 | 4.4 | 6.9              | 6.3 | 5.9 | 6.3              | 5.8 | 5.5 | 6.1              | 5.7 | 5.4 | 5.4              | 5.1 | 4.9 | 4.9              | 4.7 | 4.6  | 95                                                                                  |
| 100                                                                              | 4.1             | 4.1 | 4.1 | 6.6              | 6.1 | 5.7 | 6.1              | 5.6 | 5.4 | 5.9              | 5.6 | 5.3 | 5.2              | 5   | 4.8 | 4.7              | 4.6 | 4.5  | 100                                                                                 |
| 105                                                                              | 3.9             | 3.9 | 3.9 | 6.4              | 5.9 | 5.5 | 5.9              | 5.5 | 5.2 | 5.7              | 5.4 | 5.1 | 5                | 4.8 | 4.6 | 4.6              | 4.4 | 4.3  | 105                                                                                 |
| 110                                                                              | 3.7             | 3.7 | 3.8 | 6.1              | 5.6 | 5.3 | 5.6              | 5.3 | 5   | 5.5              | 5.2 | 5   | 4.9              | 4.6 | 4.4 | 4.4              | 4.3 | 4.2  | 110                                                                                 |
| 115                                                                              | 3.5             | 3.5 | 3.6 | 5.8              | 5.4 | 5.2 | 5.5              | 5.1 | 4.9 | 5.4              | 5.1 | 4.8 | 4.7              | 4.5 | 4.3 | 4.3              | 4.1 | 4    | 115                                                                                 |
| 120                                                                              | 3.3             | 3.4 | 3.4 | 5.6              | 5.2 | 5   | 5.3              | 4.9 | 4.7 | 5.2              | 4.9 | 4.7 | 4.5              | 4.3 | 4.2 | 4.1              | 3.9 | 3.9  | 120                                                                                 |
| 125                                                                              | 3.2             | 3.2 | 3.3 | 5.4              | 5   | 4.8 | 5.1              | 4.8 | 4.6 | 5                | 4.8 | 4.6 | 4.3              | 4.2 | 4.1 | 4                | 3.8 | 3.8  | 125                                                                                 |
| 130                                                                              | 3.1             | 3.1 |     | 5.2              | 4.9 | 4.7 | 5                | 4.6 | 4.5 | 4.9              | 4.6 | 4.5 | 4.1              | 4   | 3.9 | 3.8              | 3.7 | 3.6  | 130                                                                                 |
| 135                                                                              | 3               | 3.1 |     | 5                | 4.7 | 4.5 | 4.8              | 4.5 | 4.3 | 4.8              | 4.5 | 4.3 | 4                | 3.9 | 3.8 | 3.7              | 3.6 | 3.5  | 135                                                                                 |
| 140                                                                              |                 |     |     | 4.8              | 4.5 | 4.4 | 4.6              | 4.3 | 4.2 | 4.6              | 4.4 | 4.2 | 3.8              | 3.7 | 3.7 | 3.5              | 3.4 | 3.4  | 140                                                                                 |
| 145                                                                              |                 |     |     | 4.6              | 4.4 | 4.3 | 4.5              | 4.2 | 4.1 | 4.5              | 4.2 | 4.1 | 3.7              | 3.6 | 3.5 | 3.4              | 3.3 | 3.3  | 145                                                                                 |
| 150                                                                              |                 |     |     | 4.5              | 4.2 | 4.1 | 4.3              | 4.1 | 4   | 4.3              | 4.1 | 4   | 3.6              | 3.5 | 3.4 | 3.3              | 3.2 | 3.2  | 150                                                                                 |
| 155                                                                              |                 |     |     | 4.3              | 4.1 | 4   | 4.2              | 4   | 3.9 | 4.2              | 4   | 3.9 | 3.4              | 3.3 | 3.3 | 3.2              | 3.1 | 3.1  | 155                                                                                 |
| 160                                                                              |                 |     |     | 4.2              | 4   | 3.9 | 4.1              | 3.9 | 3.8 | 4.1              | 3.9 | 3.8 | 3.3              | 3.2 | 3.2 | 3.1              | 3   | 3    | 160                                                                                 |
| 165                                                                              |                 |     |     | 4                | 3.9 | 3.8 | 3.9              | 3.8 | 3.7 | 4                | 3.8 | 3.8 | 3.2              | 3.1 | 3.1 | 3                | 2.9 | 2.9  | 165                                                                                 |
| 170                                                                              |                 |     |     | 3.9              | 3.8 | 3.7 | 3.8              | 3.7 | 3.7 | 3.9              | 3.7 | 3.7 | 3.1              | 3   | 3   | 2.9              | 2.8 | 2.8  | 170                                                                                 |
| 175                                                                              |                 |     |     | 3.8              | 3.6 | 3.6 | 3.7              | 3.6 | 3.6 | 3.8              | 3.6 | 3.6 | 2.9              | 2.9 | 2.9 | 2.7              | 2.7 | 2.7  | 175                                                                                 |
| 180                                                                              |                 |     |     | 3.7              | 3.5 | 3.5 | 3.6              | 3.5 | 3.5 | 3.7              | 3.5 | 3.5 | 2.8              | 2.8 | 2.8 | 2.6              | 2.6 | 2.6  | 180                                                                                 |
| 185                                                                              |                 |     |     | 3.6              | 3.5 | 3.5 | 3.5              | 3.4 | 3.4 | 3.6              | 3.4 | 3.4 | 2.7              | 2.7 | 2.7 | 2.5              | 2.5 | 2.5  | 185                                                                                 |
| 190                                                                              |                 |     |     | 3.5              | 3.4 | 3.4 | 3.4              | 3.3 | 3.4 | 3.5              | 3.3 | 3.4 | 2.6              | 2.6 | 2.7 | 2.5              | 2.4 | 2.4  | 190                                                                                 |
| 195                                                                              |                 |     |     | 3.3              | 3.3 | 3.4 | 3.3              | 3.3 | 3.3 | 3.4              | 3.3 | 3.3 | 2.6              | 2.5 | 2.6 | 2.4              | 2.3 | 2.4  | 195                                                                                 |
| 200                                                                              |                 |     |     | 3.2              | 3.2 | 3.3 | 3.3              | 3.2 | 3.3 | 3.2              | 3.2 | 3.3 | 2.5              | 2.4 | 2.5 | 2.3              | 2.3 | 2.3  | 200                                                                                 |
| 205                                                                              |                 |     |     | 3.1              | 3.1 | 3.2 | 3.2              | 3.1 | 3.2 | 2.8              | 3.1 | 3.2 | 2.4              | 2.4 | 2.4 | 2.2              | 2.2 | 2.2  | 205                                                                                 |
| 210                                                                              |                 |     |     | 3                | 3   |     | 3.1              | 3.1 | 3.2 | 2.5              | 3   | 3.1 | 2.3              | 2.3 | 2.3 | 2.1              | 2.1 | 2.1  | 210                                                                                 |
| 215                                                                              |                 |     |     | 3                | 3   |     | 3                | 3   | 3.2 | 2.2              | 2.6 | 2.7 | 2.2              | 2.2 | 2.3 | 2                | 2.1 | 2.1  | 215                                                                                 |
| 220                                                                              |                 |     |     | 3                |     |     | 2.7              | 2.9 |     | 2.1              | 2.2 | 2.3 | 1.9              | 2.2 | 2.2 | 1.7              | 2   | 2    | 220                                                                                 |
| 225                                                                              |                 |     |     |                  |     |     | 2.4              | 2.5 |     | 2.1              | 2   | 2.1 | 1.6              | 2   | 2.1 | 1.3              | 1.8 | 2    | 225                                                                                 |
| 230                                                                              |                 |     |     |                  |     |     | 2.1              | 2.2 |     | 2                | 2   |     | 1.3              | 1.7 | 1.8 |                  | 1.5 | 1.7  | 230                                                                                 |
| 235                                                                              |                 |     |     |                  |     |     |                  |     |     | 1.8              | 2   |     |                  | 1.4 | 1.4 |                  | 1.1 | 1.3  | 235                                                                                 |
| 240                                                                              |                 |     |     |                  |     |     |                  |     |     | 1.6              | 1.7 |     |                  |     |     |                  |     |      | 240                                                                                 |

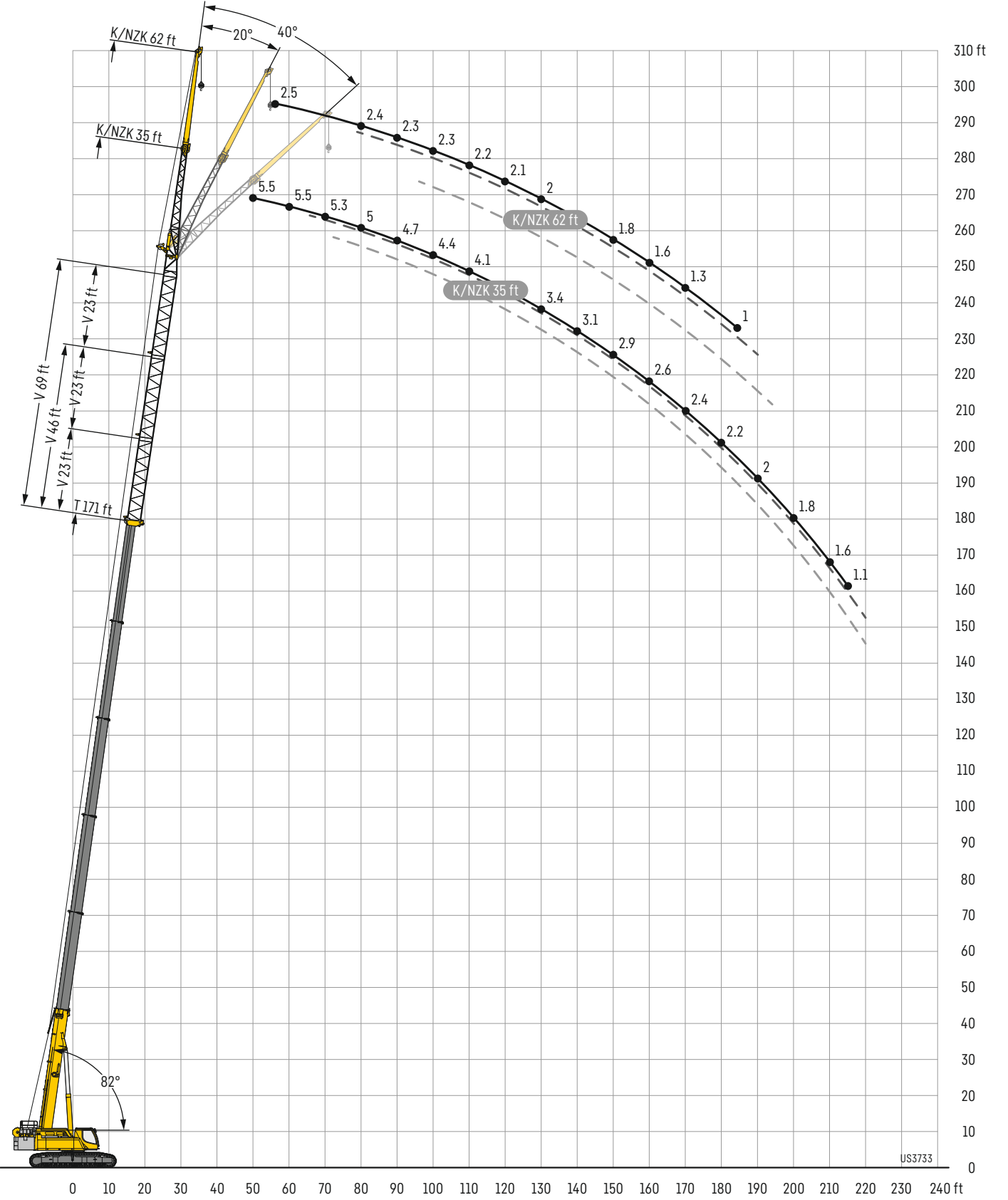
\*only possible in TVNZK mode - uniquement possible en cas de fonctionnement de la pointe pliante hydraulique de la flèche télescopique (TVNZK)

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# Lifting heights

## Hauteurs de levage

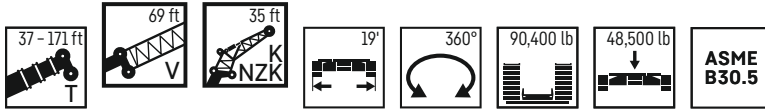
TVK/TVNZK



# Lifting capacities

## Forces de levage

# TVK/TVNZK



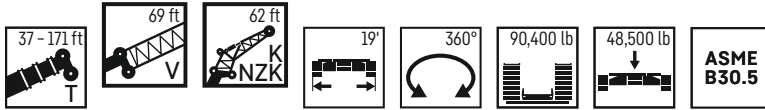
|  | 37 ft + V 69 ft |      |     | 123 ft + V 69 ft |      |     | 136 ft + V 69 ft |     |     | 148 ft + V 69 ft |     |     | 160 ft + V 69 ft |     |     | 171 ft + V 69 ft |     |     |  |
|----------------------------------------------------------------------------------|-----------------|------|-----|------------------|------|-----|------------------|-----|-----|------------------|-----|-----|------------------|-----|-----|------------------|-----|-----|-------------------------------------------------------------------------------------|
|                                                                                  | K/NZK 35 ft     |      |     |                  |      |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                                                                                     |
|                                                                                  | 0°              | 20°  | 40° | 0°               | 20°  | 40° | 0°               | 20° | 40° | 0°               | 20° | 40° | 0°               | 20° | 40° | 0°               | 20° | 40° |                                                                                     |
| 16                                                                               | 11.8            |      |     |                  |      |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 16                                                                                  |
| 17                                                                               | 11.8            |      |     |                  |      |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 17                                                                                  |
| 18                                                                               | 11.8            |      |     |                  |      |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 18                                                                                  |
| 19                                                                               | 11.8            |      |     |                  |      |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 19                                                                                  |
| 20                                                                               | 11.7            |      |     |                  |      |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 20                                                                                  |
| 22                                                                               | 11.7            |      |     |                  |      |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 22                                                                                  |
| 24                                                                               | 11.3            |      |     |                  |      |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 24                                                                                  |
| 26                                                                               | 10.9            |      |     |                  |      |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 26                                                                                  |
| 28                                                                               | 10.6            | 10.8 |     |                  |      |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 28                                                                                  |
| 30                                                                               | 10.2            | 10.3 |     |                  |      |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 30                                                                                  |
| 32                                                                               | 9.9             | 10   |     |                  |      |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 32                                                                                  |
| 34                                                                               | 9.5             | 9.7  |     | 12.2             |      |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 34                                                                                  |
| 36                                                                               | 9.3             | 9.4  | 9.4 | 12               |      |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     | 36                                                                                  |
| 38                                                                               | 9               | 9    | 9.1 | 11.8             |      |     | 9.2              |     |     |                  |     |     |                  |     |     |                  |     |     | 38                                                                                  |
| 40                                                                               | 8.7             | 8.7  | 8.8 | 11.7             |      |     | 9.1              |     |     | 8.3              |     |     |                  |     |     |                  |     |     | 40                                                                                  |
| 45                                                                               | 8.1             | 8    | 8.1 | 11.1             | 10.5 |     | 8.8              |     |     | 8.2              |     |     | 6.7              |     |     |                  |     |     | 45                                                                                  |
| 50                                                                               | 7.5             | 7.4  | 7.5 | 10.5             | 10   |     | 8.5              | 8.3 |     | 7.9              |     |     | 6.6              |     |     |                  | 5.5 |     | 50                                                                                  |
| 55                                                                               | 6.8             | 6.9  | 6.9 | 10               | 9.5  | 9   | 8.2              | 8   |     | 7.7              | 7.5 |     | 6.4              |     |     |                  | 5.5 |     | 55                                                                                  |
| 60                                                                               | 6.3             | 6.4  | 6.4 | 9.5              | 9    | 8.6 | 7.9              | 7.7 | 7.5 | 7.4              | 7.2 |     | 6.3              | 6.2 |     |                  | 5.5 |     | 60                                                                                  |
| 65                                                                               | 5.8             | 5.9  | 6   | 9                | 8.5  | 8.2 | 7.6              | 7.4 | 7.2 | 7.2              | 7   | 6.9 | 6.1              | 6   |     |                  | 5.5 | 5.4 | 65                                                                                  |
| 70                                                                               | 5.4             | 5.5  | 5.5 | 8.6              | 8.1  | 7.8 | 7.3              | 7.1 | 7   | 6.9              | 6.8 | 6.7 | 5.9              | 5.8 | 5.8 | 5.3              | 5.3 |     | 70                                                                                  |
| 75                                                                               | 5.1             | 5.1  | 5.1 | 8.2              | 7.7  | 7.4 | 7.1              | 6.8 | 6.7 | 6.7              | 6.5 | 6.4 | 5.8              | 5.7 | 5.6 | 5.2              | 5.1 | 5.1 | 75                                                                                  |
| 80                                                                               | 4.7             | 4.7  | 4.8 | 7.8              | 7.3  | 7   | 6.8              | 6.6 | 6.4 | 6.5              | 6.3 | 6.2 | 5.6              | 5.5 | 5.5 | 5                | 5   | 5   | 80                                                                                  |
| 85                                                                               | 4.4             | 4.4  | 4.5 | 7.4              | 7    | 6.7 | 6.5              | 6.3 | 6.1 | 6.3              | 6.1 | 6   | 5.4              | 5.3 | 5.3 | 4.9              | 4.9 | 4.8 | 85                                                                                  |
| 90                                                                               | 4.1             | 4.1  | 4.2 | 7                | 6.7  | 6.5 | 6.3              | 6.1 | 5.9 | 6.1              | 5.9 | 5.8 | 5.3              | 5.2 | 5.1 | 4.7              | 4.7 | 4.7 | 90                                                                                  |
| 95                                                                               | 3.8             | 3.9  | 3.9 | 6.7              | 6.4  | 6.2 | 6.1              | 5.8 | 5.7 | 5.8              | 5.7 | 5.6 | 5.1              | 5   | 4.9 | 4.6              | 4.5 | 4.5 | 95                                                                                  |
| 100                                                                              | 3.6             | 3.6  | 3.7 | 6.3              | 6.1  | 5.9 | 5.8              | 5.6 | 5.5 | 5.7              | 5.5 | 5.4 | 4.9              | 4.8 | 4.7 | 4.4              | 4.3 | 4.3 | 100                                                                                 |
| 105                                                                              | 3.4             | 3.4  | 3.5 | 6.1              | 5.8  | 5.7 | 5.6              | 5.4 | 5.3 | 5.5              | 5.3 | 5.2 | 4.7              | 4.6 | 4.5 | 4.2              | 4.1 | 4.1 | 105                                                                                 |
| 110                                                                              | 3.2             | 3.2  | 3.3 | 5.8              | 5.5  | 5.4 | 5.3              | 5.2 | 5.1 | 5.2              | 5.1 | 5   | 4.5              | 4.4 | 4.3 | 4.1              | 4   | 4   | 110                                                                                 |
| 115                                                                              | 3               | 3.1  | 3.1 | 5.5              | 5.3  | 5.2 | 5.1              | 5   | 4.9 | 5                | 4.9 | 4.9 | 4.3              | 4.2 | 4.2 | 3.9              | 3.8 | 3.8 | 115                                                                                 |
| 120                                                                              | 2.9             | 2.9  | 3   | 5.3              | 5.1  | 5   | 4.9              | 4.8 | 4.7 | 4.9              | 4.7 | 4.7 | 4.1              | 4   | 4   | 3.8              | 3.7 | 3.7 | 120                                                                                 |
| 125                                                                              | 2.7             | 2.8  | 2.8 | 5.1              | 4.9  | 4.8 | 4.7              | 4.6 | 4.5 | 4.7              | 4.6 | 4.5 | 3.9              | 3.9 | 3.9 | 3.6              | 3.5 | 3.5 | 125                                                                                 |
| 130                                                                              | 2.6             | 2.6  |     | 4.8              | 4.7  | 4.6 | 4.6              | 4.4 | 4.4 | 4.5              | 4.4 | 4.4 | 3.7              | 3.7 | 3.7 | 3.4              | 3.4 | 3.4 | 130                                                                                 |
| 135                                                                              |                 |      |     | 4.6              | 4.5  | 4.4 | 4.4              | 4.3 | 4.2 | 4.4              | 4.3 | 4.2 | 3.6              | 3.5 | 3.6 | 3.3              | 3.2 | 3.3 | 135                                                                                 |
| 140                                                                              |                 |      |     | 4.4              | 4.3  | 4.3 | 4.2              | 4.1 | 4.1 | 4.2              | 4.1 | 4.1 | 3.4              | 3.4 | 3.4 | 3.1              | 3.1 | 3.1 | 140                                                                                 |
| 145                                                                              |                 |      |     | 4.3              | 4.1  | 4.1 | 4.1              | 4   | 4   | 4.1              | 4   | 3.9 | 3.3              | 3.3 | 3.3 | 3                | 3   | 3   | 145                                                                                 |
| 150                                                                              |                 |      |     | 4.1              | 4    | 3.9 | 3.9              | 3.8 | 3.8 | 3.9              | 3.9 | 3.8 | 3.2              | 3.1 | 3.1 | 2.9              | 2.8 | 2.8 | 150                                                                                 |
| 155                                                                              |                 |      |     | 3.9              | 3.8  | 3.8 | 3.8              | 3.7 | 3.7 | 3.8              | 3.7 | 3.7 | 3                | 3   | 3   | 2.7              | 2.7 | 2.7 | 155                                                                                 |
| 160                                                                              |                 |      |     | 3.8              | 3.7  | 3.7 | 3.7              | 3.6 | 3.6 | 3.7              | 3.6 | 3.6 | 2.9              | 2.9 | 2.9 | 2.6              | 2.6 | 2.6 | 160                                                                                 |
| 165                                                                              |                 |      |     | 3.6              | 3.5  | 3.5 | 3.5              | 3.4 | 3.5 | 3.6              | 3.5 | 3.5 | 2.8              | 2.7 | 2.8 | 2.5              | 2.5 | 2.5 | 165                                                                                 |
| 170                                                                              |                 |      |     | 3.5              | 3.4  | 3.4 | 3.4              | 3.3 | 3.3 | 3.4              | 3.4 | 3.4 | 2.6              | 2.6 | 2.6 | 2.4              | 2.4 | 2.4 | 170                                                                                 |
| 175                                                                              |                 |      |     | 3.4              | 3.3  | 3.3 | 3.3              | 3.2 | 3.2 | 3.3              | 3.3 | 3.3 | 2.5              | 2.5 | 2.5 | 2.3              | 2.3 | 2.3 | 175                                                                                 |
| 180                                                                              |                 |      |     | 3.2              | 3.2  | 3.2 | 3.2              | 3.1 | 3.2 | 3.2              | 3.2 | 3.2 | 2.4              | 2.4 | 2.4 | 2.2              | 2.2 | 2.2 | 180                                                                                 |
| 185                                                                              |                 |      |     | 3.1              | 3.1  | 3.1 | 3.1              | 3   | 3.1 | 3.2              | 3.1 | 3.1 | 2.3              | 2.3 | 2.3 | 2.1              | 2.1 | 2.1 | 185                                                                                 |
| 190                                                                              |                 |      |     | 3                | 3    | 3   | 3                | 2.9 | 3   | 3.1              | 3   | 3   | 2.2              | 2.2 | 2.2 | 2                | 2   | 2   | 190                                                                                 |
| 195                                                                              |                 |      |     | 2.8              | 2.9  | 2.9 | 2.9              | 2.9 | 2.9 | 2.8              | 2.9 | 2.9 | 2.1              | 2.1 | 2.1 | 1.9              | 1.9 | 2   | 195                                                                                 |
| 200                                                                              |                 |      |     | 2.7              | 2.7  | 2.8 | 2.8              | 2.8 | 2.8 | 2.5              | 2.8 | 2.8 | 2.1              | 2.1 | 2.1 | 1.8              | 1.9 | 1.9 | 200                                                                                 |
| 205                                                                              |                 |      |     | 2.7              | 2.6  |     | 2.8              | 2.7 | 2.8 | 2.1              | 2.4 | 2.5 | 2                | 2   | 2   | 1.8              | 1.8 | 1.8 | 205                                                                                 |
| 210                                                                              |                 |      |     | 2.6              | 2.6  |     | 2.6              | 2.7 | 2.7 | 1.8              | 2   | 2.1 | 1.8              | 1.9 | 1.9 | 1.6              | 1.7 | 1.7 | 210                                                                                 |
| 215                                                                              |                 |      |     | 2.6              |      |     | 2.2              | 2.4 |     | 1.7              | 1.8 | 1.8 | 1.5              | 1.8 | 1.8 | 1.1              | 1.6 | 1.7 | 215                                                                                 |
| 220                                                                              |                 |      |     |                  |      |     | 1.9              | 2.1 |     | 1.7              | 1.7 | 1.7 | 1.1              | 1.4 | 1.5 |                  | 1.1 | 1.3 | 220                                                                                 |
| 225                                                                              |                 |      |     |                  |      |     | 1.7              | 1.7 |     | 1.6              | 1.6 |     |                  |     | 1   |                  |     |     | 225                                                                                 |
| 230                                                                              |                 |      |     |                  |      |     |                  |     |     | 1.4              | 1.5 |     |                  |     |     |                  |     |     | 230                                                                                 |
| 235                                                                              |                 |      |     |                  |      |     |                  |     |     | 1.1              | 1.2 |     |                  |     |     |                  |     |     | 235                                                                                 |

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# Lifting capacities

## Forces de levage

# TVK/TVNZK



|  | 37 ft + V 69 ft |     |     | 123 ft + V 69 ft |     |     | 136 ft + V 69 ft |     |     | 148 ft + V 69 ft |     |     | 160 ft + V 69 ft |     |     | 171 ft + V 69 ft |      |      |  |
|----------------------------------------------------------------------------------|-----------------|-----|-----|------------------|-----|-----|------------------|-----|-----|------------------|-----|-----|------------------|-----|-----|------------------|------|------|-------------------------------------------------------------------------------------|
|                                                                                  | K/NZK 62 ft     |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |      |      |                                                                                     |
|                                                                                  | 0°              | 20° | 40° | 0°               | 20° | 40° | 0°               | 20° | 40° | 0°               | 20° | 40° | 0°               | 20° | 40° | 0°               | 20°* | 40°* |                                                                                     |
| 20                                                                               | 6.5             |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |      |      | 20                                                                                  |
| 22                                                                               | 6.5             |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |      |      | 22                                                                                  |
| 24                                                                               | 6.5             |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |      |      | 24                                                                                  |
| 26                                                                               | 6.5             |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |      |      | 26                                                                                  |
| 28                                                                               | 6.5             |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |      |      | 28                                                                                  |
| 30                                                                               | 6.5             |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |      |      | 30                                                                                  |
| 32                                                                               | 6.5             |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |      |      | 32                                                                                  |
| 34                                                                               | 6.5             |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |      |      | 34                                                                                  |
| 36                                                                               | 6.5             |     |     |                  |     |     |                  |     |     |                  |     |     |                  |     |     |                  |      |      | 36                                                                                  |
| 38                                                                               | 6.5             |     |     | 8.3              |     |     |                  |     |     |                  |     |     |                  |     |     |                  |      |      | 38                                                                                  |
| 40                                                                               | 6.5             |     |     | 8.2              |     |     |                  |     |     |                  |     |     |                  |     |     |                  |      |      | 40                                                                                  |
| 45                                                                               | 6.2             | 6.7 |     | 8                |     |     | 6.3              |     |     |                  |     |     |                  |     |     |                  |      |      | 45                                                                                  |
| 50                                                                               | 5.9             | 6.3 |     | 7.7              |     |     | 6.3              |     |     | 5.7              |     |     |                  |     |     |                  |      |      | 50                                                                                  |
| 55                                                                               | 5.6             | 5.9 |     | 7.4              |     |     | 6.1              |     |     | 5.7              |     |     | 3.8              |     |     | 2.5              |      |      | 55                                                                                  |
| 60                                                                               | 5.2             | 5.5 | 5.6 | 7.1              |     |     | 5.9              |     |     | 5.5              |     |     | 3.8              |     |     | 2.5              |      |      | 60                                                                                  |
| 65                                                                               | 4.9             | 5.1 | 5.2 | 6.8              | 6.5 |     | 5.7              |     |     | 5.4              |     |     | 3.8              |     |     | 2.4              |      |      | 65                                                                                  |
| 70                                                                               | 4.5             | 4.7 | 4.9 | 6.5              | 6.2 |     | 5.5              | 5.4 |     | 5.2              | 5.1 |     | 3.8              |     |     | 2.4              |      |      | 70                                                                                  |
| 75                                                                               | 4.2             | 4.4 | 4.5 | 6.2              | 6   |     | 5.3              | 5.2 |     | 5                | 4.9 |     | 3.8              | 4.2 |     | 2.4              |      |      | 75                                                                                  |
| 80                                                                               | 3.8             | 4.1 | 4.2 | 6                | 5.7 | 5.5 | 5.1              | 5   |     | 4.9              | 4.8 |     | 3.8              | 4.1 |     | 2.4              | 2.7  |      | 80                                                                                  |
| 85                                                                               | 3.5             | 3.8 | 4   | 5.7              | 5.5 | 5.2 | 4.9              | 4.8 | 4.7 | 4.7              | 4.6 |     | 3.8              | 4   |     | 2.3              | 2.7  |      | 85                                                                                  |
| 90                                                                               | 3.3             | 3.5 | 3.7 | 5.5              | 5.2 | 5   | 4.8              | 4.6 | 4.5 | 4.5              | 4.4 | 4.3 | 3.8              | 3.9 |     | 2.3              | 2.6  |      | 90                                                                                  |
| 95                                                                               | 3               | 3.2 | 3.4 | 5.3              | 5   | 4.8 | 4.6              | 4.4 | 4.4 | 4.4              | 4.3 | 4.2 | 3.8              | 3.7 | 3.7 | 2.3              | 2.6  | 2.8  | 95                                                                                  |
| 100                                                                              | 2.7             | 2.9 | 3.1 | 5                | 4.8 | 4.6 | 4.4              | 4.3 | 4.2 | 4.2              | 4.1 | 4.1 | 3.7              | 3.6 | 3.6 | 2.3              | 2.6  | 2.8  | 100                                                                                 |
| 105                                                                              | 2.5             | 2.7 | 2.9 | 4.8              | 4.6 | 4.4 | 4.3              | 4.1 | 4   | 4.1              | 4   | 3.9 | 3.6              | 3.5 | 3.5 | 2.2              | 2.6  | 2.7  | 105                                                                                 |
| 110                                                                              | 2.3             | 2.5 | 2.7 | 4.6              | 4.4 | 4.2 | 4.1              | 3.9 | 3.9 | 3.9              | 3.8 | 3.8 | 3.4              | 3.4 | 3.4 | 2.2              | 2.5  | 2.7  | 110                                                                                 |
| 115                                                                              | 2.2             | 2.3 | 2.5 | 4.3              | 4.2 | 4   | 3.9              | 3.8 | 3.7 | 3.8              | 3.7 | 3.7 | 3.3              | 3.3 | 3.3 | 2.1              | 2.5  | 2.6  | 115                                                                                 |
| 120                                                                              | 2               | 2.1 | 2.2 | 4.1              | 4   | 3.9 | 3.7              | 3.7 | 3.6 | 3.6              | 3.6 | 3.5 | 3.2              | 3.2 | 3.1 | 2.1              | 2.4  | 2.6  | 120                                                                                 |
| 125                                                                              | 1.8             | 1.9 | 2   | 3.9              | 3.8 | 3.7 | 3.6              | 3.5 | 3.5 | 3.5              | 3.4 | 3.4 | 3                | 3.1 | 3   | 2.1              | 2.4  | 2.6  | 125                                                                                 |
| 130                                                                              | 1.7             | 1.8 | 1.9 | 3.8              | 3.6 | 3.6 | 3.4              | 3.4 | 3.4 | 3.3              | 3.3 | 3.3 | 2.9              | 2.9 | 2.9 | 2                | 2.3  | 2.5  | 130                                                                                 |
| 135                                                                              | 1.6             | 1.6 | 1.7 | 3.6              | 3.5 | 3.4 | 3.3              | 3.2 | 3.2 | 3.2              | 3.2 | 3.2 | 2.8              | 2.8 | 2.8 | 2                | 2.2  | 2.5  | 135                                                                                 |
| 140                                                                              | 1.5             | 1.5 | 1.6 | 3.5              | 3.3 | 3.2 | 3.2              | 3.1 | 3.1 | 3.1              | 3.1 | 3.1 | 2.6              | 2.7 | 2.7 | 1.9              | 2.1  | 2.4  | 140                                                                                 |
| 145                                                                              | 1.4             | 1.4 | 1.5 | 3.3              | 3.2 | 3.1 | 3.1              | 3   | 3   | 3                | 3   | 3   | 2.5              | 2.5 | 2.6 | 1.9              | 2    | 2.3  | 145                                                                                 |
| 150                                                                              | 1.4             | 1.4 | 1.5 | 3.1              | 3.1 | 3   | 2.9              | 2.9 | 2.9 | 2.9              | 2.8 | 2.8 | 2.3              | 2.4 | 2.5 | 1.8              | 1.9  | 2.1  | 150                                                                                 |
| 155                                                                              | 1.4             | 1.4 |     | 3                | 2.9 | 2.9 | 2.8              | 2.8 | 2.8 | 2.8              | 2.7 | 2.7 | 2.2              | 2.3 | 2.4 | 1.7              | 1.8  | 2    | 155                                                                                 |
| 160                                                                              |                 |     |     | 2.9              | 2.8 | 2.8 | 2.7              | 2.7 | 2.6 | 2.7              | 2.6 | 2.6 | 2.1              | 2.1 | 2.2 | 1.6              | 1.7  | 1.9  | 160                                                                                 |
| 165                                                                              |                 |     |     | 2.7              | 2.7 | 2.7 | 2.6              | 2.6 | 2.5 | 2.6              | 2.5 | 2.5 | 1.9              | 2   | 2.1 | 1.5              | 1.5  | 1.7  | 165                                                                                 |
| 170                                                                              |                 |     |     | 2.6              | 2.5 | 2.6 | 2.5              | 2.5 | 2.5 | 2.5              | 2.4 | 2.5 | 1.8              | 1.8 | 2   | 1.3              | 1.4  | 1.6  | 170                                                                                 |
| 175                                                                              |                 |     |     | 2.5              | 2.4 | 2.5 | 2.4              | 2.4 | 2.4 | 2.4              | 2.4 | 2.4 | 1.7              | 1.7 | 1.9 | 1.2              | 1.3  | 1.5  | 175                                                                                 |
| 180                                                                              |                 |     |     | 2.4              | 2.3 | 2.4 | 2.3              | 2.3 | 2.3 | 2.3              | 2.3 | 2.3 | 1.5              | 1.6 | 1.7 | 1.1              | 1.2  | 1.3  | 180                                                                                 |
| 185                                                                              |                 |     |     | 2.3              | 2.2 | 2.3 | 2.2              | 2.2 | 2.2 | 2.2              | 2.2 | 2.2 | 1.4              | 1.5 | 1.6 | 1                | 1.1  | 1.2  | 185                                                                                 |
| 190                                                                              |                 |     |     | 2.2              | 2.2 | 2.2 | 2.1              | 2.1 | 2.1 | 2.1              | 2.1 | 2.2 | 1.3              | 1.3 | 1.5 |                  | 1    | 1.1  | 190                                                                                 |
| 195                                                                              |                 |     |     | 2.1              | 2.1 | 2.1 | 2                | 2   | 2   | 2                | 2   | 2.1 | 1.2              | 1.2 | 1.4 |                  |      | 1    | 195                                                                                 |
| 200                                                                              |                 |     |     | 2                | 2   | 2   | 2                | 2   | 2   | 2                | 2   | 2   | 1.1              | 1.1 | 1.2 |                  |      |      | 200                                                                                 |
| 205                                                                              |                 |     |     | 1.9              | 1.9 | 2   | 1.9              | 1.9 | 1.9 | 1.9              | 1.9 | 2   |                  | 1   | 1.1 |                  |      |      | 205                                                                                 |
| 210                                                                              |                 |     |     | 1.8              | 1.8 | 1.9 | 1.8              | 1.8 | 1.8 | 1.8              | 1.8 | 1.9 |                  |     | 1   |                  |      |      | 210                                                                                 |
| 215                                                                              |                 |     |     | 1.8              | 1.8 | 1.8 | 1.8              | 1.8 | 1.8 | 1.7              | 1.8 | 1.8 |                  |     |     |                  |      |      | 215                                                                                 |
| 220                                                                              |                 |     |     | 1.6              | 1.7 | 1.7 | 1.7              | 1.7 | 1.7 | 1.5              | 1.7 | 1.8 |                  |     |     |                  |      |      | 220                                                                                 |
| 225                                                                              |                 |     |     | 1.6              | 1.6 | 1.7 | 1.6              | 1.6 | 1.7 | 1.1              | 1.6 | 1.7 |                  |     |     |                  |      |      | 225                                                                                 |
| 230                                                                              |                 |     |     | 1.5              | 1.5 |     | 1.6              | 1.6 | 1.7 |                  | 1.3 | 1.5 |                  |     |     |                  |      |      | 230                                                                                 |
| 235                                                                              |                 |     |     | 1.5              | 1.5 |     | 1.4              | 1.5 | 1.6 |                  |     | 1   |                  |     |     |                  |      |      | 235                                                                                 |
| 240                                                                              |                 |     |     | 1.5              | 1.5 |     | 1.1              | 1.4 |     |                  |     |     |                  |     |     |                  |      |      | 240                                                                                 |
| 245                                                                              |                 |     |     |                  |     |     |                  | 1   |     |                  |     |     |                  |     |     |                  |      |      | 245                                                                                 |

\* only possible in TVNZK mode - uniquement possible en cas de fonctionnement de la pointe pliante hydraulique de la flèche télescopique (TVNZK)

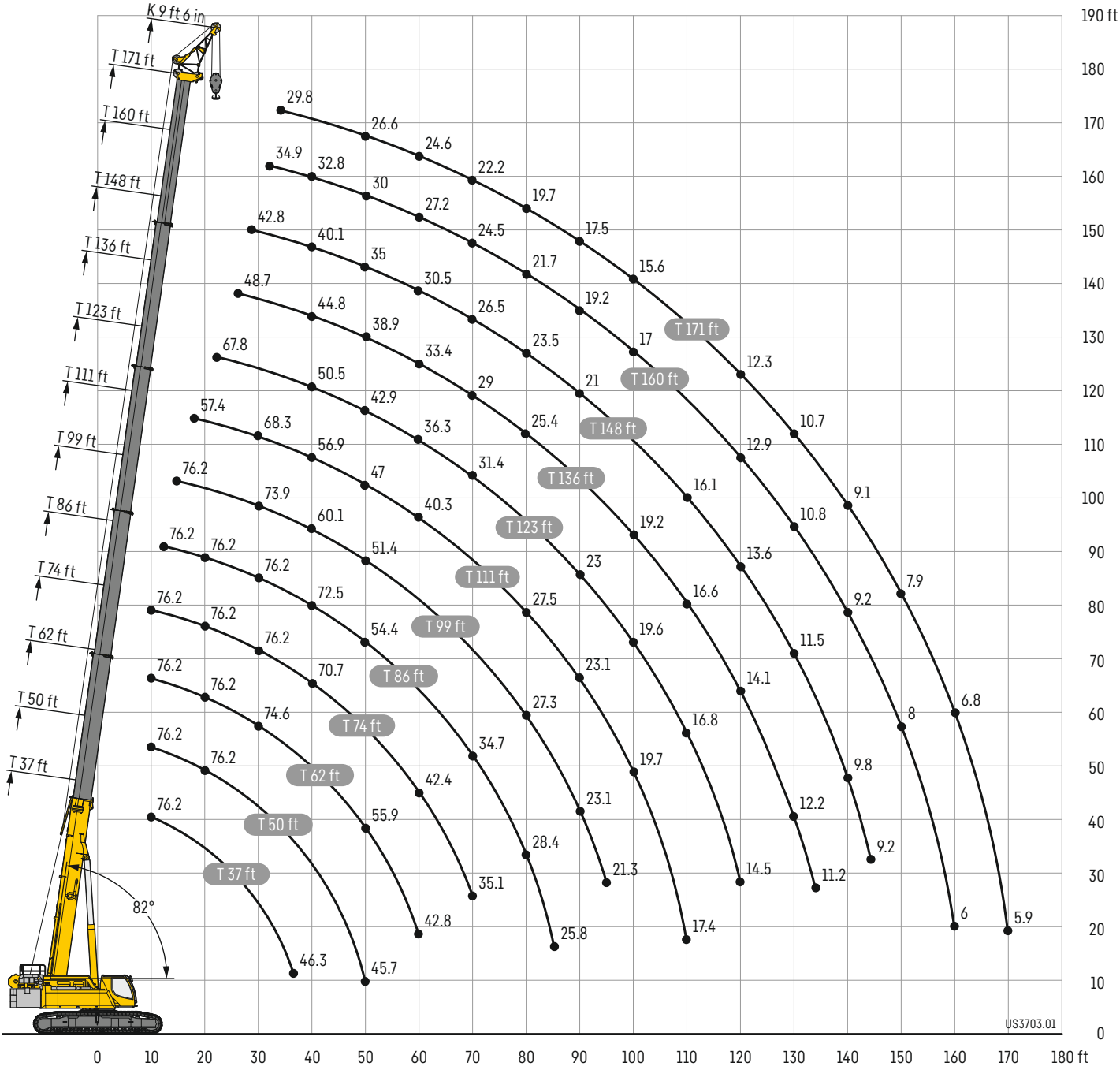
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# Lifting heights

## Hauteurs de levage

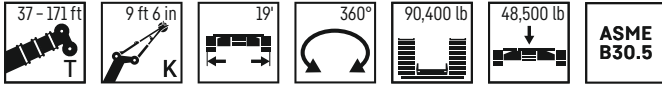
TK



# Lifting capacities

## Forces de levage

TK



|     | 37 ft       | 50 ft | 62 ft | 74 ft | 86 ft | 99 ft | 111 ft | 123 ft | 136 ft | 148 ft | 160 ft | 171 ft |     |
|-----|-------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-----|
|     | K 9 ft 6 in |       |       |       |       |       |        |        |        |        |        |        |     |
| 10  | 76.2        | 76.2  | 76.2  | 76.2  |       |       |        |        |        |        |        |        | 10  |
| 11  | 76.2        | 76.2  | 76.2  | 76.2  |       |       |        |        |        |        |        |        | 11  |
| 12  | 76.2        | 76.2  | 76.2  | 76.2  | 76.2  |       |        |        |        |        |        |        | 12  |
| 13  | 76.2        | 76.2  | 76.2  | 76.2  | 76.2  |       |        |        |        |        |        |        | 13  |
| 14  | 76.2        | 76.2  | 76.2  | 76.2  | 76.2  |       |        |        |        |        |        |        | 14  |
| 15  | 76.2        | 76.2  | 76.2  | 76.2  | 76.2  | 76.2  |        |        |        |        |        |        | 15  |
| 16  | 76.2        | 76.2  | 76.2  | 76.2  | 76.2  | 76.2  |        |        |        |        |        |        | 16  |
| 17  | 76.2        | 76.2  | 76.2  | 76.2  | 76.2  | 76.2  |        |        |        |        |        |        | 17  |
| 18  | 76.1        | 76.2  | 76.2  | 76.2  | 76.2  | 76.2  | 57.4   |        |        |        |        |        | 18  |
| 19  | 75.2        | 76.2  | 76.2  | 76.2  | 76.2  | 76.2  | 76.2   |        |        |        |        |        | 19  |
| 20  | 73.9        | 76.2  | 76.2  | 76.2  | 76.2  | 76.2  | 76.2   |        |        |        |        |        | 20  |
| 22  | 71.4        | 76.2  | 76.2  | 76.2  | 76.2  | 76.2  | 76.2   | 67.8   |        |        |        |        | 22  |
| 24  | 69.2        | 75.2  | 76.2  | 76.2  | 76.2  | 76.2  | 76.2   | 66.1   | 48.7   |        |        |        | 24  |
| 26  | 67.4        | 73.3  | 76.2  | 76.2  | 76.2  | 76.2  | 73.8   | 64.3   | 52.6   |        |        |        | 26  |
| 28  | 65.7        | 71.4  | 76    | 76.2  | 76.2  | 76.2  | 70.9   | 62.2   | 51.6   | 42.8   |        |        | 28  |
| 30  | 64.4        | 69.6  | 74.6  | 76.2  | 76.2  | 73.9  | 68.3   | 60.1   | 50.5   | 44.5   |        |        | 30  |
| 32  | 63.2        | 67.9  | 73.1  | 75.7  | 76.2  | 70.6  | 65.6   | 58.3   | 49.4   | 43.9   | 34.9   |        | 32  |
| 34  | 61.1        | 66.4  | 71.6  | 74.6  | 75.6  | 68.1  | 62.9   | 56.3   | 48.2   | 43     | 34.3   | 29.8   | 34  |
| 36  | 56.8        | 65.2  | 70.1  | 73.1  | 74.7  | 65.3  | 60.8   | 54.4   | 47     | 42.2   | 33.8   | 29.4   | 36  |
| 38  | 46.3        | 64.1  | 68.7  | 71.9  | 73.7  | 62.8  | 58.8   | 52.5   | 45.9   | 41.1   | 33.3   | 29.1   | 38  |
| 40  |             | 63.3  | 67.5  | 70.7  | 72.5  | 60.1  | 56.9   | 50.5   | 44.8   | 40.1   | 32.8   | 28.7   | 40  |
| 45  |             | 60.2  | 64.8  | 64.6  | 63.7  | 55.2  | 51.8   | 46.5   | 41.8   | 37.5   | 31.4   | 27.7   | 45  |
| 50  |             | 45.7  | 55.9  | 55.5  | 54.4  | 51.4  | 47     | 42.9   | 38.9   | 35     | 30     | 26.6   | 50  |
| 55  |             |       | 48.6  | 48.3  | 47.2  | 47.6  | 43.4   | 39.4   | 36.1   | 32.6   | 28.6   | 25.6   | 55  |
| 60  |             |       | 42.8  | 42.4  | 41.8  | 42.5  | 40.3   | 36.3   | 33.4   | 30.5   | 27.2   | 24.6   | 60  |
| 65  |             |       |       | 37.6  | 38.7  | 37.7  | 37.2   | 33.6   | 31.1   | 28.4   | 25.8   | 23.5   | 65  |
| 70  |             |       |       | 35.1  | 34.7  | 33.7  | 33.8   | 31.4   | 29     | 26.5   | 24.5   | 22.2   | 70  |
| 75  |             |       |       |       | 31.3  | 30.2  | 30.4   | 29.4   | 27.2   | 24.9   | 23     | 20.9   | 75  |
| 80  |             |       |       |       | 28.4  | 27.3  | 27.5   | 27.3   | 25.4   | 23.5   | 21.7   | 19.7   | 80  |
| 85  |             |       |       |       | 25.8  | 25.3  | 25.3   | 24.9   | 24     | 22.2   | 20.4   | 18.6   | 85  |
| 90  |             |       |       |       |       | 23.1  | 23.1   | 23     | 22.4   | 21     | 19.2   | 17.5   | 90  |
| 95  |             |       |       |       |       | 21.3  | 21.2   | 21.4   | 20.8   | 19.8   | 18.1   | 16.6   | 95  |
| 100 |             |       |       |       |       |       | 19.7   | 19.6   | 19.2   | 18.7   | 17     | 15.6   | 100 |
| 105 |             |       |       |       |       |       | 18.8   | 17.9   | 17.8   | 17.2   | 16.1   | 14.7   | 105 |
| 110 |             |       |       |       |       |       | 17.4   | 16.8   | 16.6   | 16.1   | 15.2   | 13.9   | 110 |
| 115 |             |       |       |       |       |       |        | 15.7   | 15.3   | 14.8   | 14.1   | 13.1   | 115 |
| 120 |             |       |       |       |       |       |        | 14.5   | 14.1   | 13.6   | 12.9   | 12.3   | 120 |
| 125 |             |       |       |       |       |       |        |        | 13     | 12.5   | 11.8   | 11.6   | 125 |
| 130 |             |       |       |       |       |       |        |        | 12.2   | 11.5   | 10.8   | 10.7   | 130 |
| 135 |             |       |       |       |       |       |        |        | 11.2   | 10.6   | 9.9    | 9.8    | 135 |
| 140 |             |       |       |       |       |       |        |        |        | 9.8    | 9.2    | 9.1    | 140 |
| 145 |             |       |       |       |       |       |        |        |        | 9.2    | 8.6    | 8.5    | 145 |
| 150 |             |       |       |       |       |       |        |        |        |        | 8      | 7.9    | 150 |
| 155 |             |       |       |       |       |       |        |        |        |        | 7.4    | 7.4    | 155 |
| 160 |             |       |       |       |       |       |        |        |        |        | 6      | 6.8    | 160 |
| 165 |             |       |       |       |       |       |        |        |        |        |        | 6.4    | 165 |
| 170 |             |       |       |       |       |       |        |        |        |        |        | 5.9    | 170 |

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# Equipment



## Crawler travel gear

|                 |                                                                                                                                                                                                                                                                                          |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frame           | Liebherr manufactured, weight-optimized and torsion resistant box-type design, consisting of crawler center section and two crawler tracks. The crawler tracks can be removed from the telescoping beams. Hydraulic track width adjustment.                                              |
| Tracks          | Maintenance free crawler tracks with 2 ft 11 in wide triple grouser track pads.                                                                                                                                                                                                          |
| Travel drive    | Per crawler carrier, a hydraulic travel drive consisting of an axial piston motor, planetary gear with spring-loaded hydraulically-releasable travel brake. The crawler chains can be controlled synchronously as well as independently and counter-rotating. Travel speed: 0 – 1.4 mph. |
| Central ballast | 48,500 lb, placement blocks at 24,250 lb each, mounting on crawler center section.                                                                                                                                                                                                       |



## Crane superstructure

|                     |                                                                                                                                                                                                                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frame               | Liebherr manufactured, weight optimized and torsion resistant welding construction fabricated from high tensile fine grain steel. As connection element to the crawler chassis serves a single row ball bearing slewing ring between the undercarriage and superstructure allows for unlimited slewing. |
| Crane engine        | 4-cylinder Liebherr Diesel, watercooled, output 218 kW (296 h.p.), max. torque 1062 lb-ft. Exhaust emissions to (EU 2016/1628 and EPA/CARB or ECE-R.96, spark arrestor. Fuel reservoir: 254 gallons.                                                                                                    |
| Crane drive         | Diesel-hydraulic, with axial piston variable displacement pumps, with servo-control and capacity control, open controlled oil circuits. Hydraulic drive flanged to the diesel engine via the transfer case.                                                                                             |
| Control             | Electric “Load Sensing” control, simultaneous operation of 4 working motions, 2 self-centering hand control levers (joy-stick type). The crawler travel gear is operated via the 2 two-way controllable foot pedals. The crawler travel gear and the crane superstructure can be driven simultaneously. |
| ECOMode             | Automatic adaption of the diesel engine speed, fuel saving and reduction of the noise emission.                                                                                                                                                                                                         |
| Hoist gear          | Axial piston fixed displacement motor, Liebherr hoist drum with integrated planetary gear and spring-loaded static brake.                                                                                                                                                                               |
| Luffing gear        | 1 differential ram with safety check valves.                                                                                                                                                                                                                                                            |
| Slewing gear        | Axial piston fixed displacement motor, planetary gear, spring-loaded static brake, slewing gear reversible.                                                                                                                                                                                             |
| Crane cab           | Large screen area, compound glass, comfort furnishing, cab tiltable backwards.                                                                                                                                                                                                                          |
| Safety devices      | LICCON2 safe load indicator, test system hoist limit switch, safety valves to prevent pipe and hose ruptures.                                                                                                                                                                                           |
| Telescopic boom     | 1 base section and 5 telescopic sections. All telescopic sections extendable individually by means of the rapid-cycle telescoping system Telematik. Boom length 37 ft – 171 ft.                                                                                                                         |
| Counterweight       | 68,350 lb                                                                                                                                                                                                                                                                                               |
| Electrical system   | Modern data bus technique, 24 Volt DC.                                                                                                                                                                                                                                                                  |
| Lateral inclination | 0.3°, 1.5°, 2.5° and 4° lateral inclination on tables for the telescopic boom and 9 ft 6 in assembly jib.                                                                                                                                                                                               |

## Additional equipment

|                                                |                                                                                                           |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| K                                              | Assembly jib 9 ft 6 in with steel cable pulleys.                                                          |
| K                                              | Single folding jib, 35 ft<br>Double swing-away jib 35 ft – 62 ft<br>Mechanical adjustment 0°; 20°; 40°    |
| NZK                                            | Single folding jib, 35 ft<br>Double swing-away jib 35 ft – 62 ft<br>Hydraulic adjustment 0° – 40°         |
| V                                              | Telescopic boom extension 3 x 23 ft                                                                       |
| 2nd hoist gear                                 | For two-hook operation or for operation with swing-away jib if the hoist rope shall remain reeved.        |
| Additional counterweight                       | 2 x 11,025 lb for a total counterweight of 90,400 lb.                                                     |
| Jack-up cylinder incl. folding brackets        | For crawler removal, flatbed trailer transit height 3 ft 11 in, flatbed trailer transit width 10 ft 2 in. |
| Track pads                                     | 2 ft 11 in flat track pads                                                                                |
| Other items of equipment available on request. |                                                                                                           |

# Equipment



## Train de chenilles

|                     |                                                                                                                                                                                                                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Châssis             | Construction en caisse résistante à la torsion et optimisée en poids réalisée par Liebherr en acier de construction, constitué de la partie centrale du train de roulement et de deux longerons. Les longerons peuvent être démontés des poutres télescopiques. Réglage hydraulique de la voie.         |
| Train de roulement  | Train de roulement sans entretien, muni de tuiles à 3 nervures, de 2 ft 11 in de large.                                                                                                                                                                                                                 |
| Transmission        | Une transmission hydraulique par longeron, comprenant un moteur à cylindrée variable et pistons axiaux, un réducteur planétaire avec frein à ressort et à déblocage hydraulique. Les chaînes sont synchrones, indépendantes et une commande inversée est possible. Vitesse de translation: 0 – 1.4 mph. |
| Contrepoids central | 48,500 lb, blocs de suspension de 24,250 lb chacun, fixation sur la partie centrale du train de roulement.                                                                                                                                                                                              |



## Partie tournante

|                         |                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cadre                   | Fabrication Liebherr, structure mécano-soudée en acier allégé à haute résistance à grains fins. Une couronne d'orientation à une rangée de billes permettant une rotation illimitée sert d'élément de raccordement au train de chenilles.                                                                         |
| Moteur                  | Moteur diesel Liebherr, 4 cylindres, à refroidissement par eau, de 218 kW (296 ch), couple max. 1062 lb-ft. Emissions des gaz d'échappement conformes aux directives (EU) 2016/1628 et EPA/CARB ou ECE-R.96, pare-étincelles. Capacité du réservoir à carburant: 254 gallons.                                     |
| Entraînement            | Diesel hydraulique avec des pompes à débit variable à pistons axiaux, servocommande et régulation de la puissance, circuits hydrauliques ouverts et régulés. Entraînement hydraulique relié au moteur Diesel via une boîte de transfert.                                                                          |
| Direction               | Direction électrique «Load Sensing», 4 mouvements de travail dirigeable simultanément, deux leviers de commande à 4 positions et à autocentrage. Le train de chenilles est actionné par 2 pédales à double commande. Le train de chenilles et la partie tournante de la grue peuvent être déplacés simultanément. |
| Mode ECO                | Adaptation automatique du régime du moteur diesel, économie de carburant et réduction des émissions sonores.                                                                                                                                                                                                      |
| Mécanisme de levage     | Moteur à cylindrée constante et à pistons axiaux. Treuil de marque Liebherr équipé d'un engrenage planétaire et d'un frein d'arrêt commandé par ressort.                                                                                                                                                          |
| Mécanisme de relevage   | 1 vérin différentiel avec soupapes de retenu.                                                                                                                                                                                                                                                                     |
| Dispositif de rotation  | Moteur à cylindrée constante à pistons axiaux, engrenage planétaire, frein d'arrêt commandé par ressort, mécanisme d'orientation commutable.                                                                                                                                                                      |
| Cabine de grue          | Large champ de vision, vitrage de sécurité, équipement pour un confort idéal, cabine inclinable vers l'arrière.                                                                                                                                                                                                   |
| Dispositif de sécurité  | Contrôleur de charge «LICCON2», système test limitation de la course pour le levage, soupape de sûreté contre la rupture de tubes et de tuyaux.                                                                                                                                                                   |
| Flèche télescopique     | Un élément de base et de 5 télescopes. Chaque partie peut être télescopée individuellement à l'aide du système de télescopage séquentiel rapide Telematik. Longueur de flèche: 37 ft – 171 ft.                                                                                                                    |
| Contrepoids             | 68,350 lb                                                                                                                                                                                                                                                                                                         |
| Installation électrique | Technique moderne de transmission de données par BUS de données. Courant continu 24 Volts.                                                                                                                                                                                                                        |
| Inclinaison latérale    | Inclinaison latérale de 0,3°, 1,5°, 2,5° et 4° avec les tableaux correspondants à la flèche télescopique et à la fléchette de montage 9 ft 6 in.                                                                                                                                                                  |

## Equipment supplémentaire

|                                           |                                                                                                                                                    |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| K                                         | Fléchette de montage 9 ft 6 in avec poulies de câble en acier.                                                                                     |
| K                                         | Flechette pliante simple, longueur 35 ft<br>Double flechette pliante 35 ft – 62 ft<br>Réglage mécanique 0° ; 20° ; 40°                             |
| NZK                                       | Flechette pliante simple, longueur 35 ft<br>Double flechette pliante 35 ft – 62 ft<br>Réglage hydraulique 0° – 40°                                 |
| V                                         | Rallonge flèche télescopique 3 x 23 ft                                                                                                             |
| 2ème mécanisme de levage                  | Pour l'utilisation du deuxième crochet, ou bien pour une utilisation avec fléchette pliante lorsque le câble de levage principal rest mouflé.      |
| Contrepoids supplémentaire                | 2 x 11,025 lb pour un contrepoids total de 90,400 lb.                                                                                              |
| Vérin Jack-up, consoles rabattables incl. | Pour le démontage des chenilles, hauteur de passage des remorques surbaissées 3 ft 11 in, largeur de passage des remorques surbaissées 10 ft 2 in. |
| Tuiles                                    | Tuiles plates de 2 ft 11 in                                                                                                                        |

Autres équipements supplémentaires sur demande.

# Description of symbols

## Explication des symboles

|                                                                                     |                                                      |                                                                                     |                                                                  |
|-------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------|
|    | <b>Max. capacity</b><br>Capacité max.                |    | <b>Boom position</b><br>Position de la flèche                    |
|    | <b>Max. hoist height</b><br>Hauteur de levage max.   |    | <b>Hookblock/Capacity</b><br>Moufle à crochet/Capacité de charge |
|    | <b>Max. radius</b><br>Portée max.                    |    | <b>No. of sheaves</b><br>Poulies                                 |
|     | <b>Driving force</b><br>Puissance propulsive         |    | <b>No. of lines</b><br>Brins                                     |
|    | <b>Total weight</b><br>Poids total                   |    | <b>Weight</b><br>Poids                                           |
|    | <b>Ground pressure</b><br>Pression au sol            |    | <b>infinitely variable</b><br>en continu                         |
|  | <b>Driving speed</b><br>Vitesse de translation       |  | <b>Radius</b><br>Portée                                          |
|  | <b>Gradability</b><br>Aptitude à graver les pentes   |  | <b>Telescopic boom</b><br>Flèche télescopique                    |
|  | <b>Rope diameter</b><br>Diamètre                     |  | <b>Hydraulic swing away jib</b><br>Fléchette pliante hydraulique |
|  | <b>Rope length</b><br>Longueur du câble              |  | <b>Telescopic boom extension</b><br>Rallonge flèche télescopique |
|  | <b>Max. single line pull</b><br>Effort au brin maxi. |  | <b>Assembly jib</b><br>Fléchette de montage                      |
|  | <b>Hoist gear</b><br>Treuil de levage                |  | <b>Width crawler chassis</b><br>Largeur du train de chenilles    |
|  | <b>Slewing speeds</b><br>Vitesses d'orientation      |  | <b>Counterweight</b><br>Contrepoids                              |
|  | <b>Boom length</b><br>Longueur de la flèche          |  | <b>Central ballast</b><br>Contrepoids central                    |

Remarks

|     |                                                                                                                                                                                                                                                                                                                                                                                               |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | The lifting capacities do not exceed 75 % of the tipping load according to ASME B 30.5. The crane's structural steelwork is in accordance with EN 13000 and ASME B 30.5.                                                                                                                                                                                                                      |
| 2.  | For the calculation of the load charts at least a wind speed of 30 ft/s (9 m/s, 20 mph) and regarding the load a sail area of 1 m² per ton load and a wind resistance coefficient of 1.2 on the load have been taken into account. For lifting of loads with large sail areas and/or high wind resistance coefficients the maximum wind speed as stated in the load charts has to be reduced. |
| 3.  | The lifting capacities stated are valid for lifting operation only (corresponding with crane classification according to ISO 4301-1, crane group A1).                                                                                                                                                                                                                                         |
| 4.  | Lifting capacities are given in kip.                                                                                                                                                                                                                                                                                                                                                          |
| 5.  | The weight of the hook blocks and hooks is part of the load and therefore it must be deducted from the lifting capacities.                                                                                                                                                                                                                                                                    |
| 6.  | Working radii are measured from the slewing center.                                                                                                                                                                                                                                                                                                                                           |
| 7.  | The stated lengths of the telescopic boom are maximum values and may deviate slightly.                                                                                                                                                                                                                                                                                                        |
| 8.  | The lifting capacities given for the telescopic boom apply if the folding jib is removed.                                                                                                                                                                                                                                                                                                     |
| 9.  | Lifting capacities above 189,600 lb/257,700 lb only with additional pulley block/special equipment.                                                                                                                                                                                                                                                                                           |
| 10. | Subject to modification of lifting capacities.                                                                                                                                                                                                                                                                                                                                                |
| 11. | Lateral inclination ± 0.3°.                                                                                                                                                                                                                                                                                                                                                                   |
| 12. | The data of this brochure serves only for general information. All information is provided without warranty. Instructions for the correct commissioning of the crane please take from the operation manual and the load chart book.                                                                                                                                                           |
| 13. | The illustrations in this brochure may feature accessories and special equipment not included in the standard scope of delivery.                                                                                                                                                                                                                                                              |

Remarques

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  | La capacité de charge ne doit pas dépasser 75 % de la charge de basculement conformément à ASME B 30.5. La structure métallique de la grue est conforme à EN 13000 et ASME B 30.5.                                                                                                                                                                                                                                                                   |
| 2.  | Une vitesse de vent de 30 ft/s (9 m/s, 20 mph) minimum, une surface de prise au vent de 1 m² par tonne ainsi qu'un coefficient de résistance au vent de la charge 1,2 sont pris en compte pour le calcul des tableaux de charge. Lorsque des charges ayant une surface de prise au vent et/ou un coefficient de résistance au vent plus élevé(e)(s) sont levées, la vitesse de vent maximale indiquée dans les tableaux de charge doit être réduite. |
| 3.  | Forces de levage pour application de grue de montage (correspond à la classification de grues selon ISO 4301-1, groupe de grues A1).                                                                                                                                                                                                                                                                                                                 |
| 4.  | Les charges sont indiquées en kip.                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 5.  | Le poids du crochet de levage resp. de la moufle à crochet est une partie de la charge et doit donc être déduit de la capacité de charge.                                                                                                                                                                                                                                                                                                            |
| 6.  | Les portées sont calculées à partir de l'axe de rotation.                                                                                                                                                                                                                                                                                                                                                                                            |
| 7.  | Les longueurs indiquées pour la flèche télescopique sont des valeurs maximales et peuvent légèrement varier dans la réalité.                                                                                                                                                                                                                                                                                                                         |
| 8.  | Les charges indiquées pour la flèche télescopique sont valables lorsque la fléchette pliante est démontée.                                                                                                                                                                                                                                                                                                                                           |
| 9.  | Les charges supérieures à 189,600 lb/257,700 lb seulement avec moufle additionnel/équipement supplémentaire.                                                                                                                                                                                                                                                                                                                                         |
| 10. | Charges données sous réserve de modification.                                                                                                                                                                                                                                                                                                                                                                                                        |
| 11. | Inclinaison latérale ± 0,3°.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 12. | Les données de cette brochure sont données à titre informatif. Ces renseignements sont sans garantie. Les consignes relatives à la bonne mise en service de la grue sont disponibles dans le manuel d'utilisation et le manuel de tableaux de charge.                                                                                                                                                                                                |
| 13. | Les figures contiennent également des accessoires et des équipements spéciaux non inclus de série dans la livraison.                                                                                                                                                                                                                                                                                                                                 |

# MyLiebherr

Our MyLiebherr portal is the easy way for you to access Liebherr's digital service world.  
Take advantage of extensive basic and additional services for your mobile and crawler cranes.

Avec notre portail MyLiebherr, accédez facilement à l'univers numérique du service de Liebherr.  
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**Crane Finder**



Operations

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Planning

**Crane Planner 2.0**



Operations

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Planning

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Maintenance

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### Proposition 65



**WARNING:** This product can expose you to chemicals, including exhaust emissions, including lead and lead compounds, which are known to the State of California to cause cancer, birth defects or other reproductive harm.  
For more information see: [www.P65warnings.ca.gov/diesel](http://www.P65warnings.ca.gov/diesel)

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