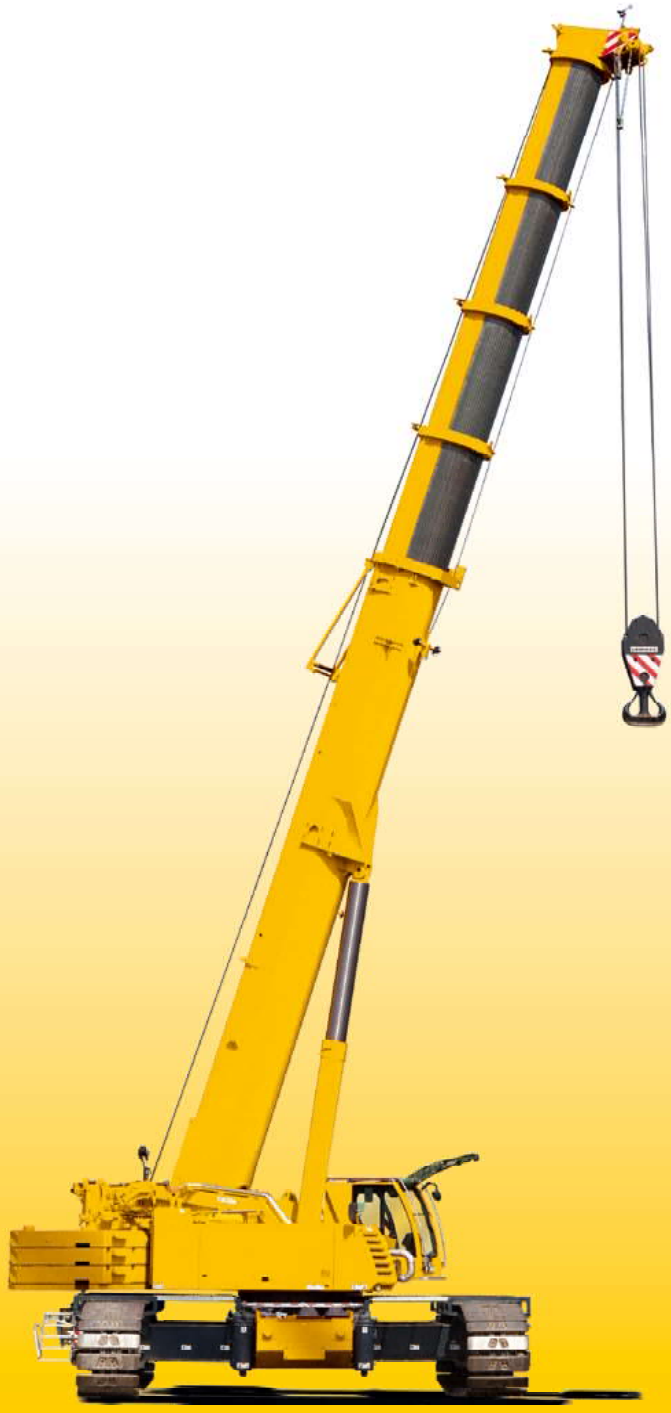
# Telescopic Crawler Crane LTR 1220

## Technical Data



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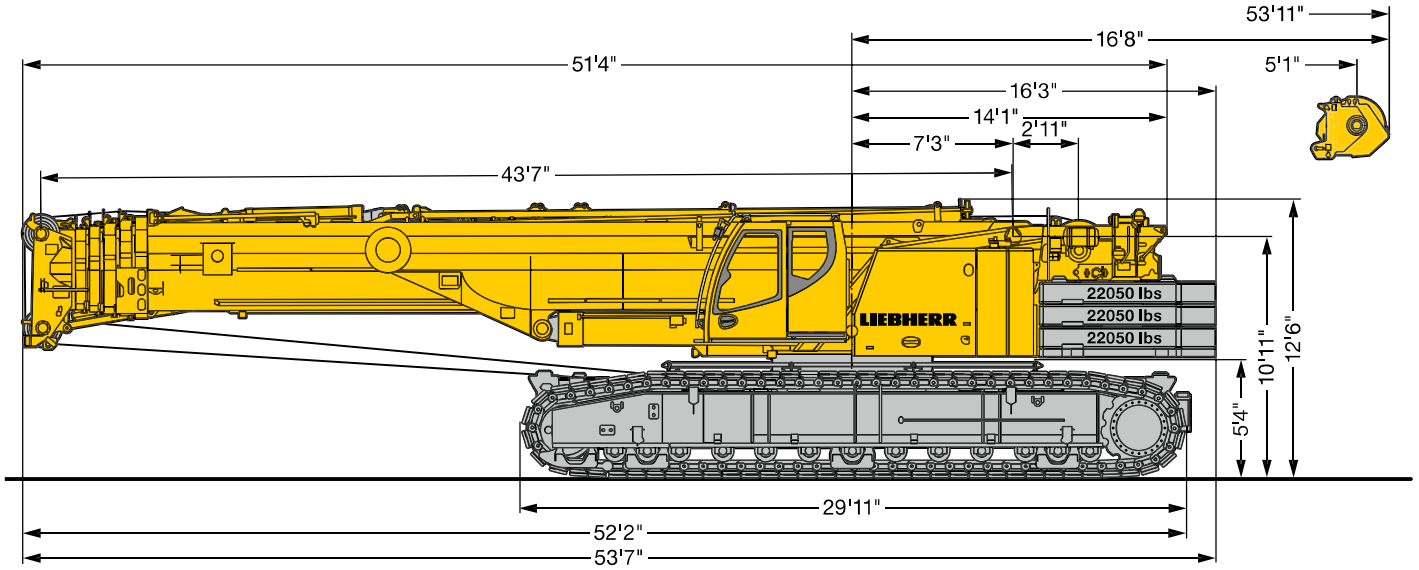
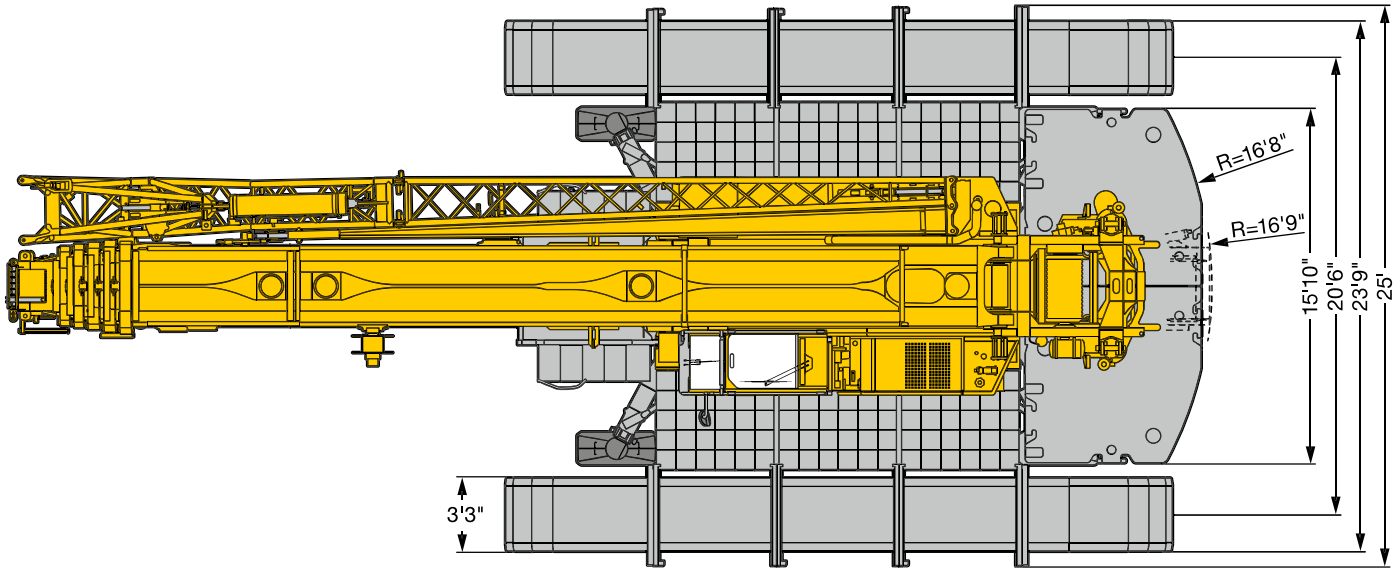
# Dimensions
# Encombrement

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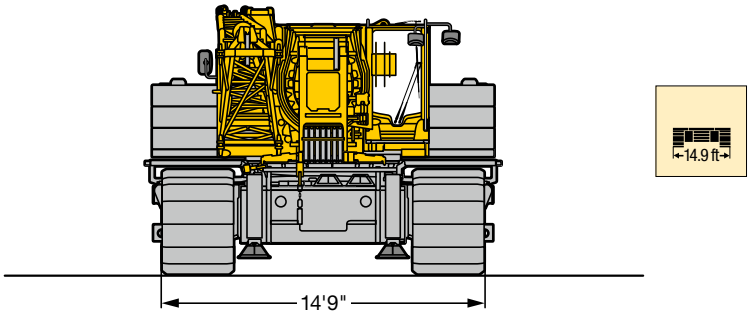
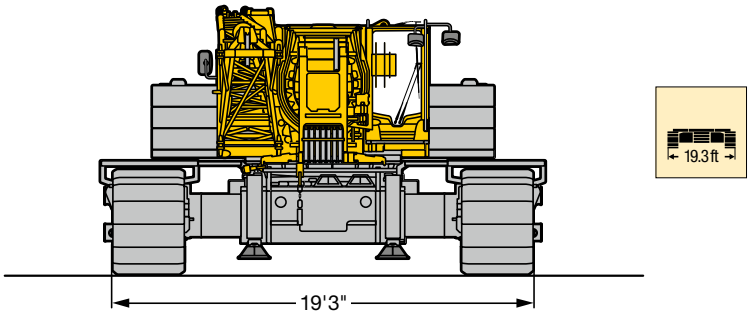
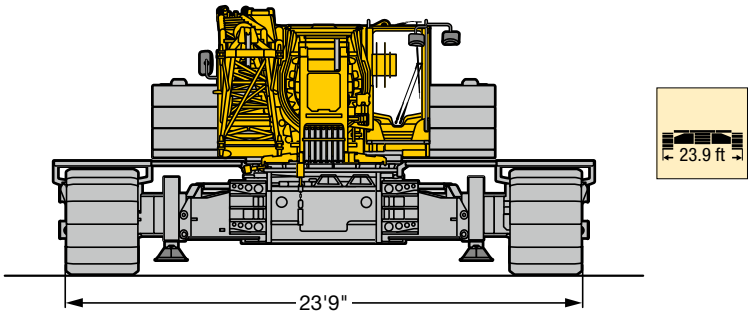
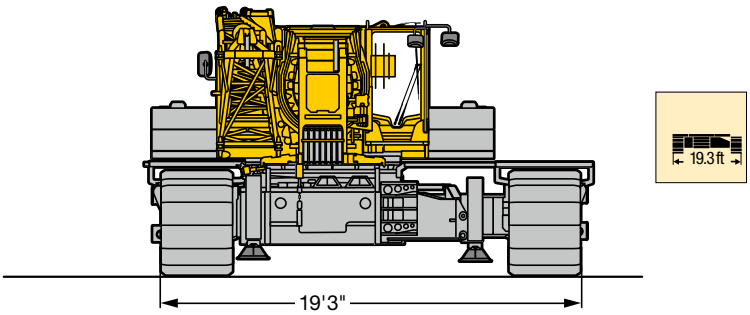
# Dimensions
# Encombrement

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# Crane data
# Dates de la grue

| | | |
|---|---|---|
| | Total driving force<br>Puissance propulsive totale | 254000 lbs |
| | Total weight with 154350 lbs counterweight, 44100 lbs central ballast, 3-sheave hook block and 3.28 ft track pads<br>Poids total avec contrepoids de 154350 lbs, lest central de 44100 lbs, moufle à crochet à 3 poulies et des tuiles de 3.28 ft | ~ 397900 lbs |
| | Average ground pressure without jack-up cylinders at ~397900 lbs total weight and with 3.28 ft track pads<br>Pression au sol moyenne sans vérin Jack-up pour un poids total de ~397900 lbs et des tuiles de 3.28 ft | 16.5 lbs / inch² |
| | normal gear · marche normale<br>rapid gear · marche rapide | 0 – 0.37 mph<br>0 – 1.55 mph |
| | Max. permissible gradability<br>Pente admissible maxi. | 47 % |

| Load kips<br>Forces de levage kips | No. of sheaves<br>Poulies | No. of lines<br>Brins | Weight lbs<br>Poids lbs |
|---|---|---|---|
| 332.9 | 9 | 16 | 4400 |
| 314.4 | 7 | 15 | 3300 |
| 237.4 | 5 | 11 | 2866 |
| 155.6 | 3 | 7 | 2292 |
| 68.7 | 1 | 3 | 1851 |
| 23.1 | – | 1 | 1102 |

| Drive<br>Mécanismes | infinitely variable<br>en continu | Rope diameter / Rope length<br>Diamètre du câble / Longueur du câble | Max. single line pull<br>Effort au brin maxi. |
|---|---|---|---|
| | 0 – 426 ft/min single line<br>ft/min au brin simple | 0'9" / 920 ft | 23605 lbs |
| | 0 – 426 ft/min single line<br>ft/min au brin simple | 0'9" / 1150 ft | 23605 lbs |
| | 0 – 1.8 rpm | | |
| | approx. 50 seconds to reach 82° boom angle<br>env. 50 s jusqu'à 82° | | |
| | approx. 420 seconds for boom extension from 44 ft – 197 ft<br>env. 420 s pour passer de 44 ft – 197 ft | | |



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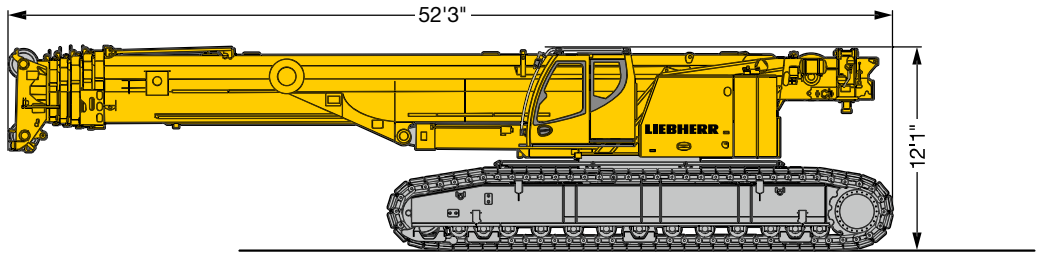
# Transportation plan
# Plan de transport

Without slewing platform counterweight and without centre counterweight · Sans contrepoids de la partie tournante et sans contrepoids central

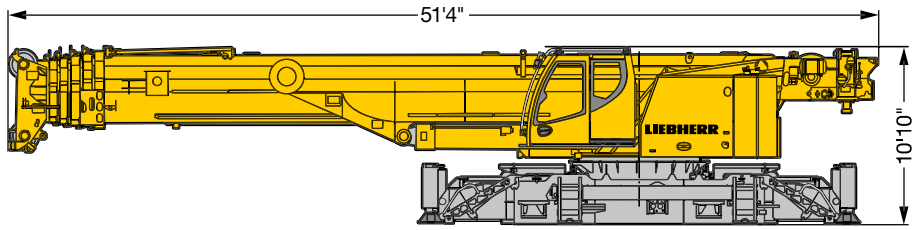
Basic machine, width 16'5", double grouser crawler carrier 3'3"
Machine de base, largeur 16'5", 2 nervures longerons 3'3"

## 203930 lbs



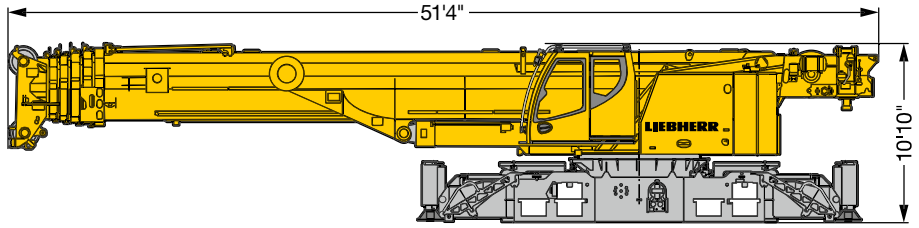

Basic machine, width 9'10", with jack-Up cylinder and traverse beam
Machine de base, largeur 9'10", avec verin Jack-Up, avec traverse

## 121900 lbs



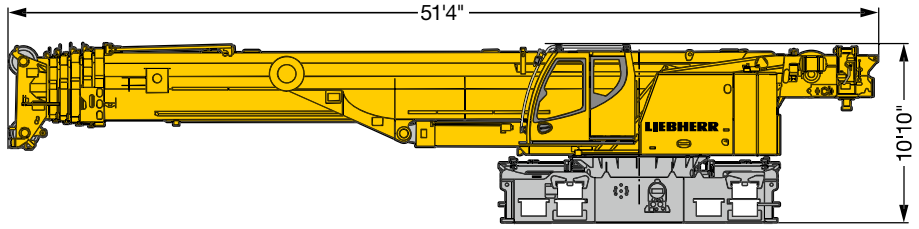

Basic machine, width 9'10", with jack-Up cylinder, **without** traverse beam
Machine de base, largeur 9'10" avec verin Jack-Up, **sans** traverse

## 105820 lbs




Basic machine, width 9'10", without jack-Up cylinder, **without** traverse beam
Machine de base, largeur 9'10" sans verin Jack-Up, **sans** traverse

## 99200 lbs

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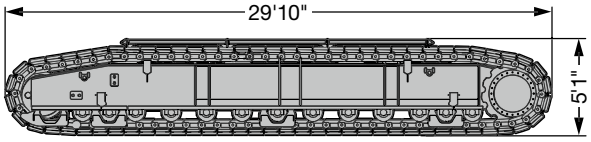
# Transportation plan
# Plan de transport

Crawler carrier, 2 x, 2-bar crawler shoes, width 3'3"
Longerons, 2 x, tuiles 2 nervures, largeur 3'3"

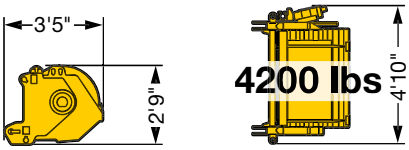
**39500 lbs (2x)**

**41000 lbs (2x)** [3)]



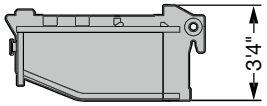

Winch 2 incl. rope
Treuil 2 avec câble

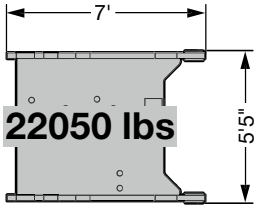
**(1x)**




Center counterweight
Contrepoids de base

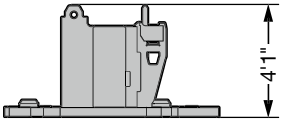
**(2x)**

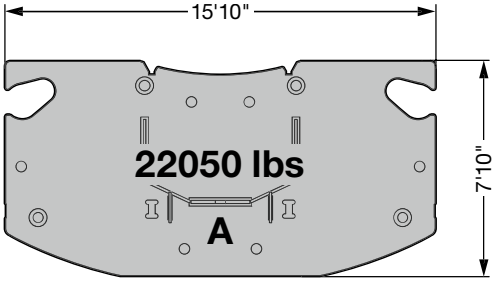



Part A / Partie A
Superstructure ballast
Contrepoids de la partie tournante

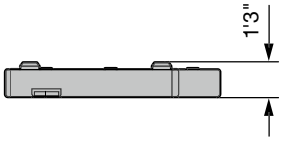
**(1x)**

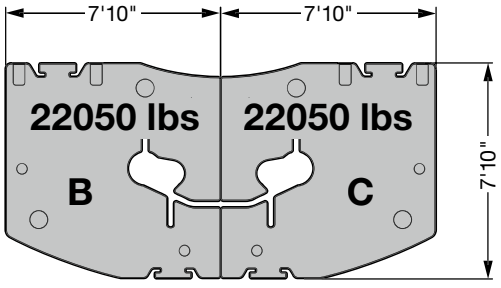



Part B, C / Partie B, C
Superstructure ballast
Contrepoids de la partie tournante

**(3x + 3x)**

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| | Part A / Partie A<br>à 22050 lbs | Part B / Partie B<br>à 22050 lbs | Part C / Partie C<br>à 22050 lbs |
|---|---|---|---|
| 110250 lbs | 1 x | 2 x | 2 x |
| 154350 lbs* | 1 x | 3 x | 3 x |

* optional · en option




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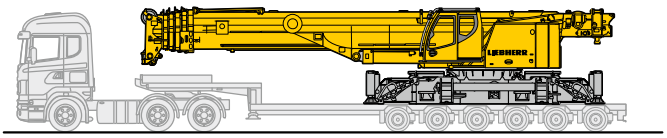
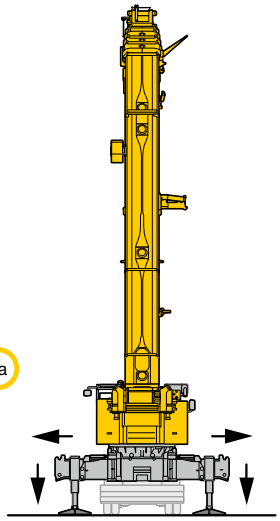
# Transportation plan A
# Plan de transport A

**~121250 lbs**

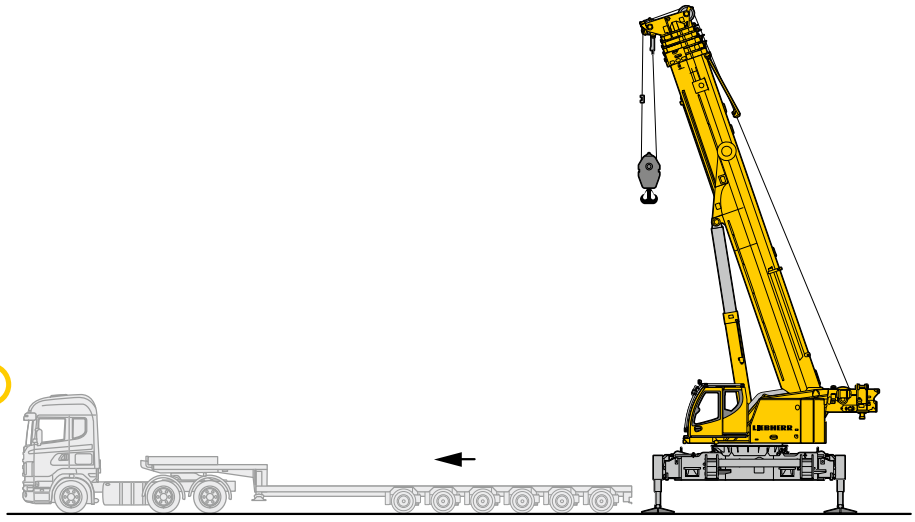
1a





2a

3a





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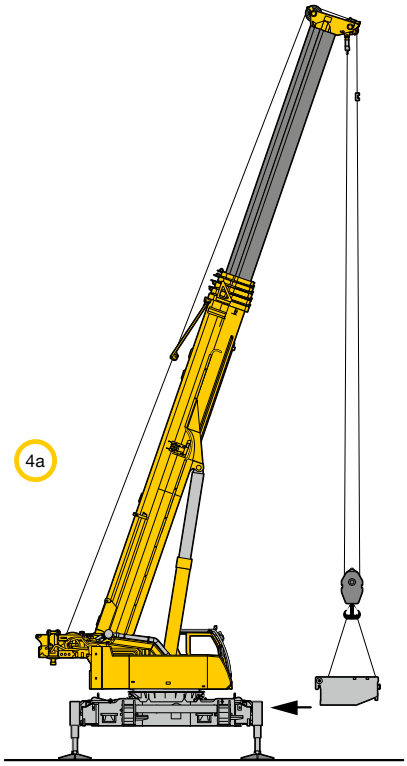
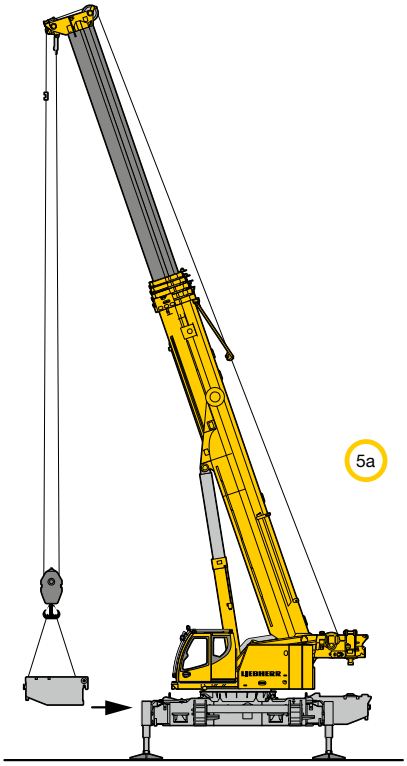
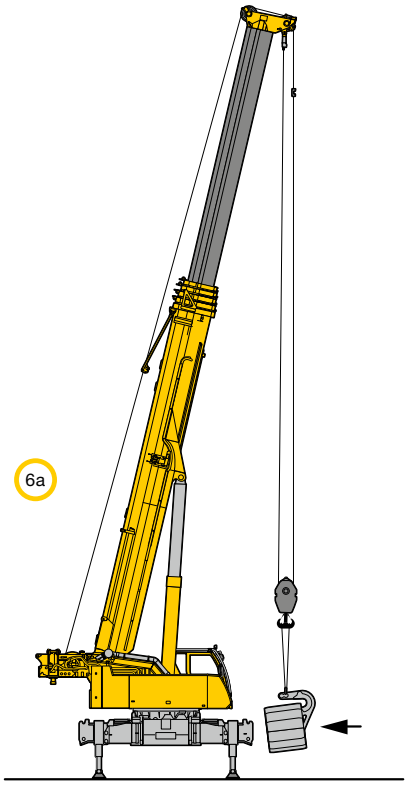
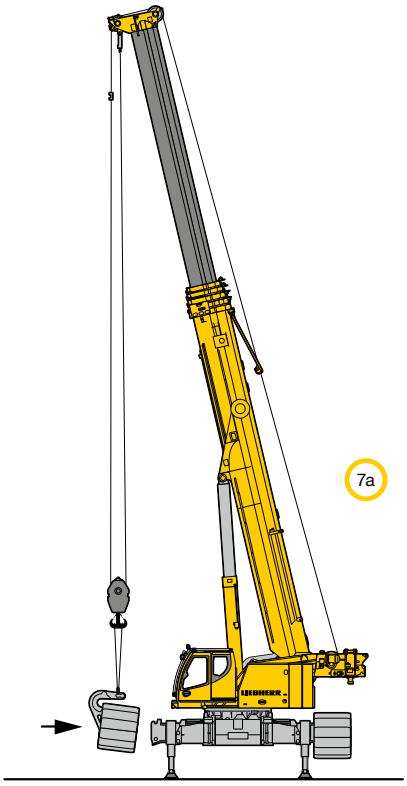
# Transportation plan A
# Plan de transport A



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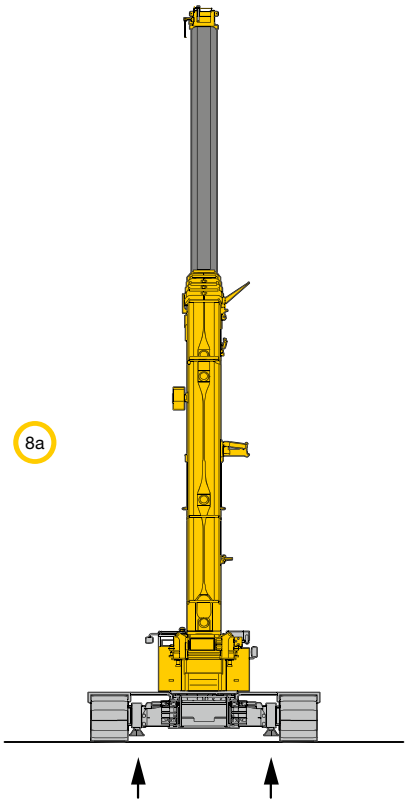
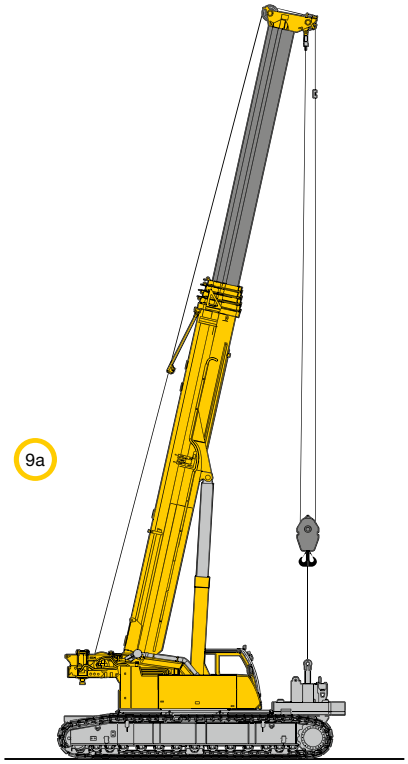
# Transportation plan A
# Plan de transport A

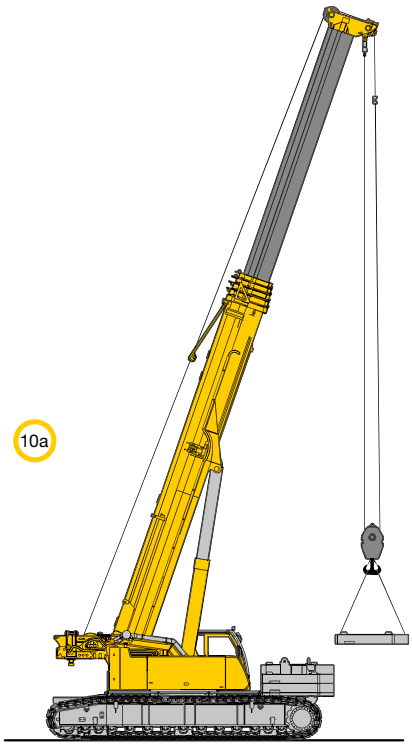
8a



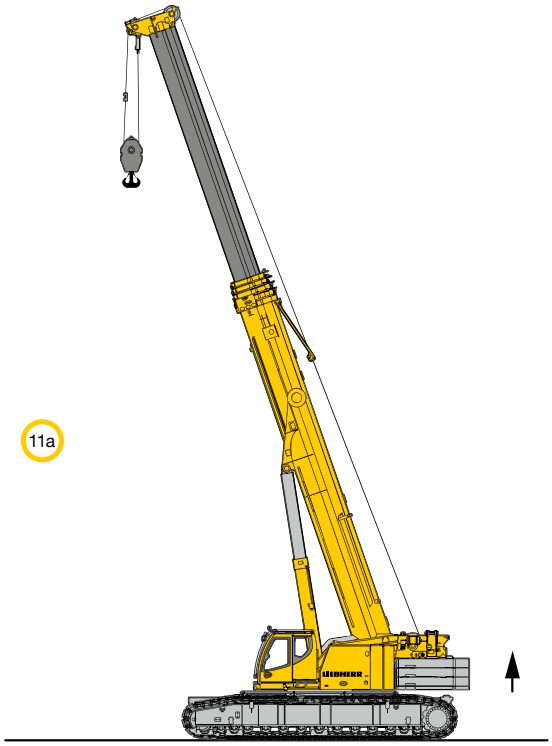
9a



10a



11a



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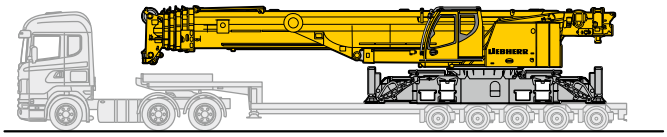
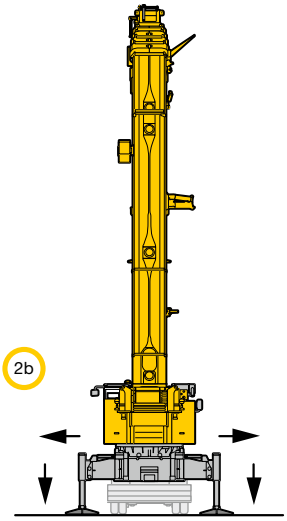
# Transportation plan B
# Plan de transport B

**~ 105800 lbs**

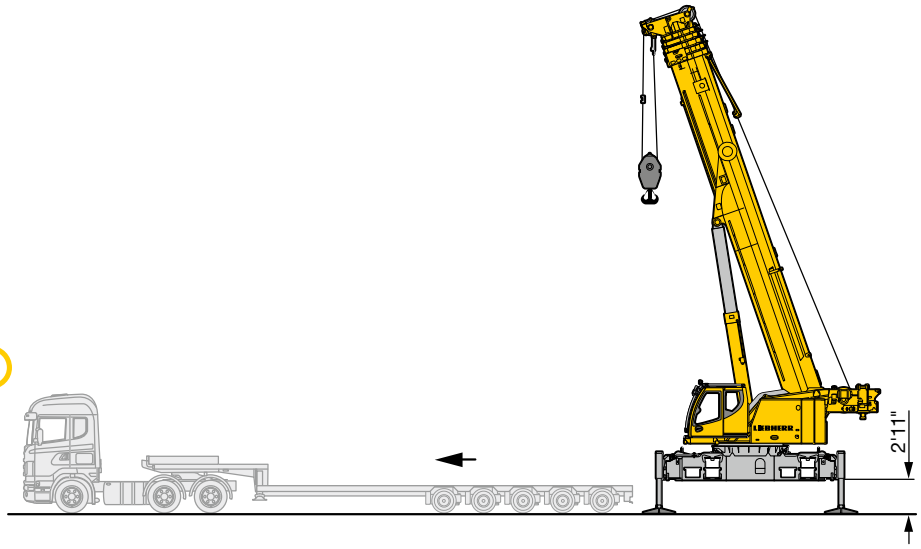
1b



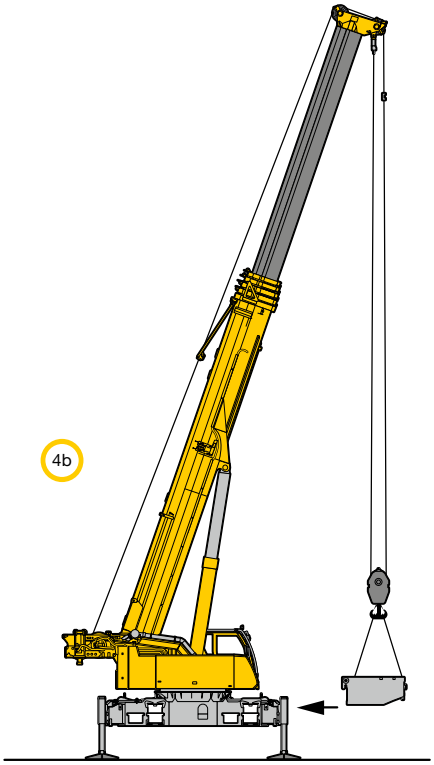
2b



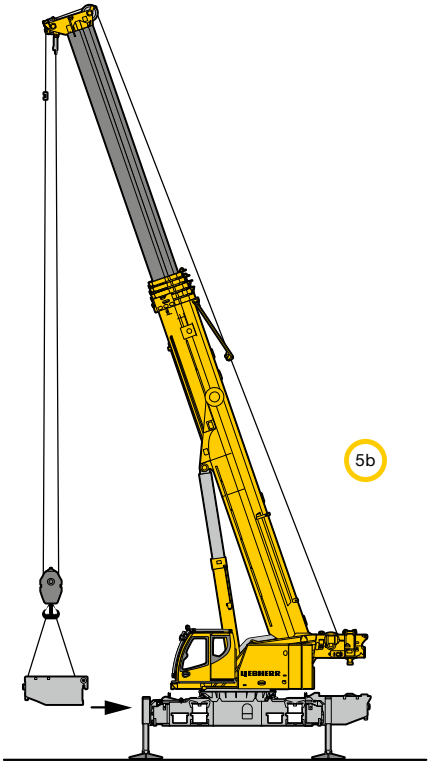
3b




4b



5b



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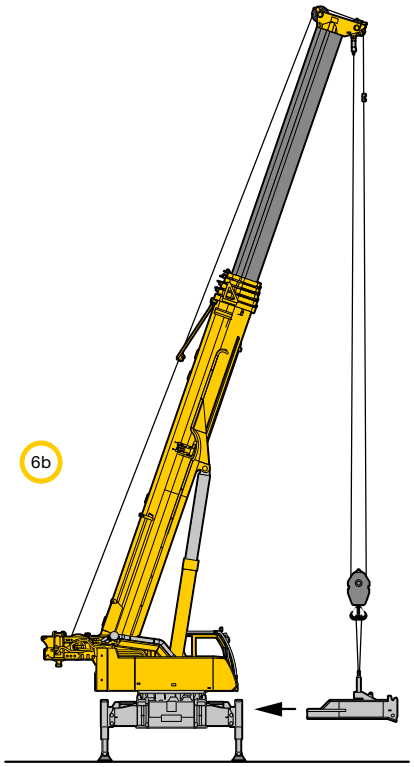
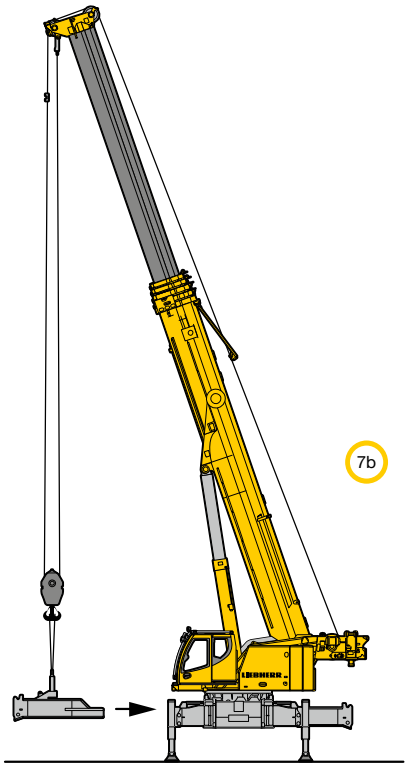
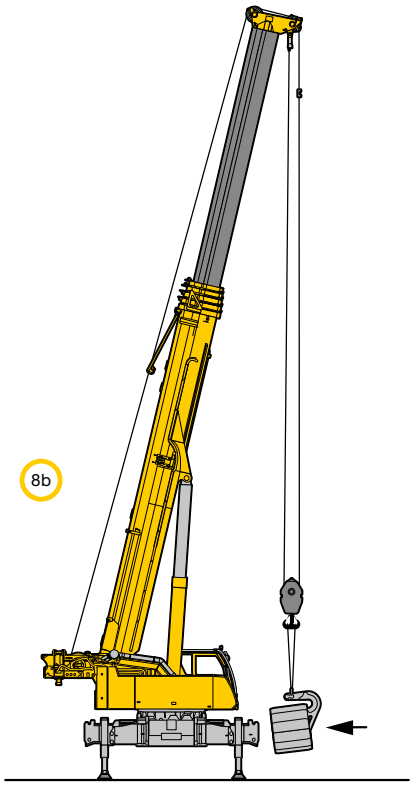
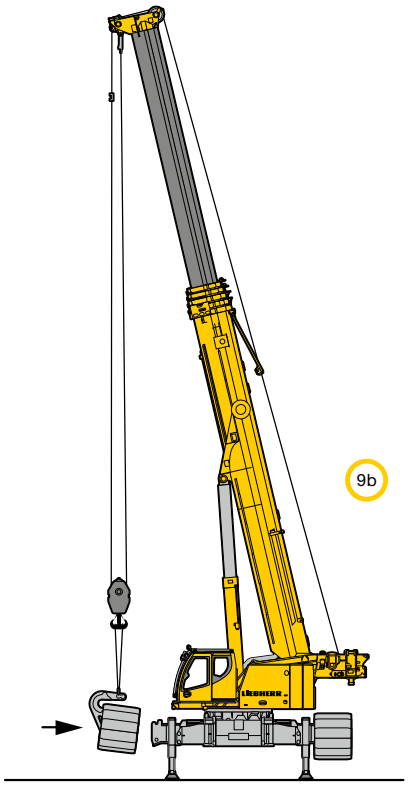
# Transportation plan B
# Plan de transport B

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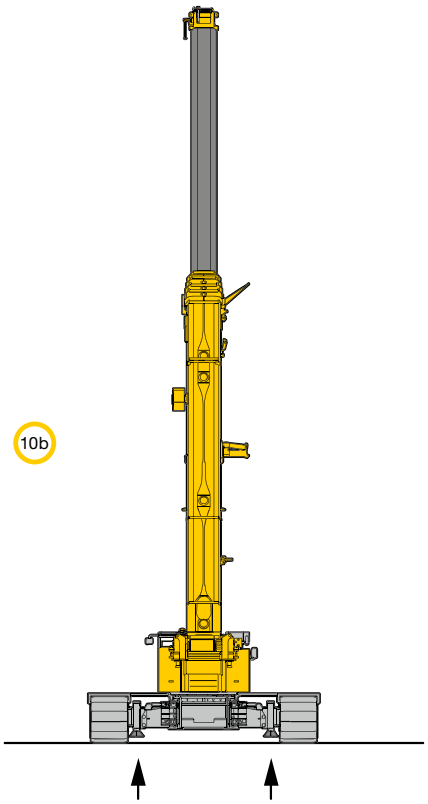


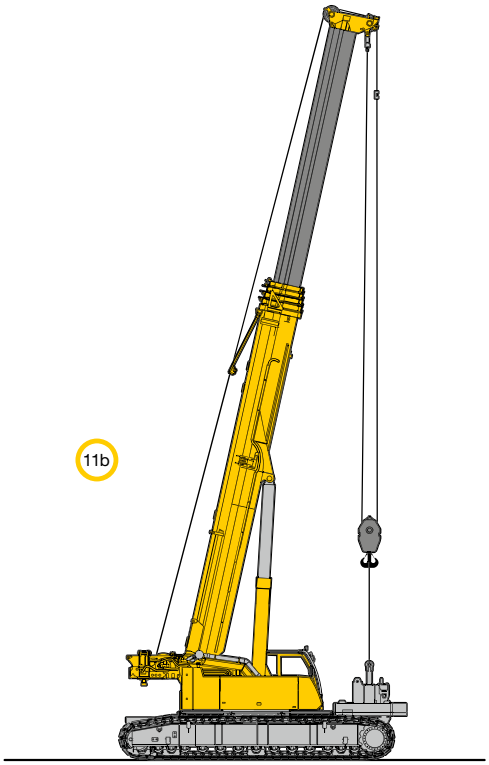


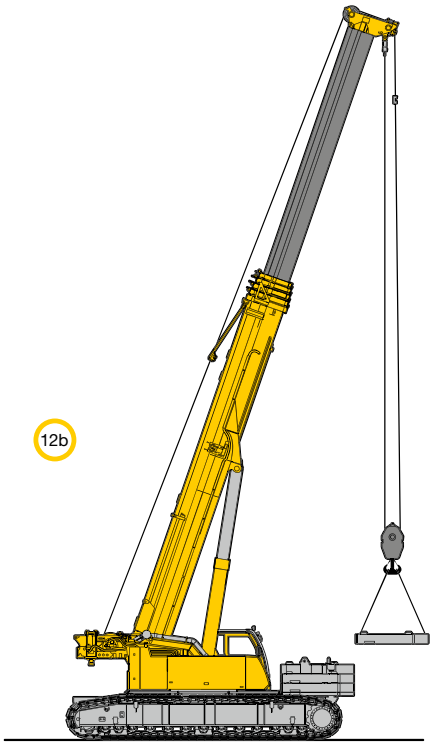


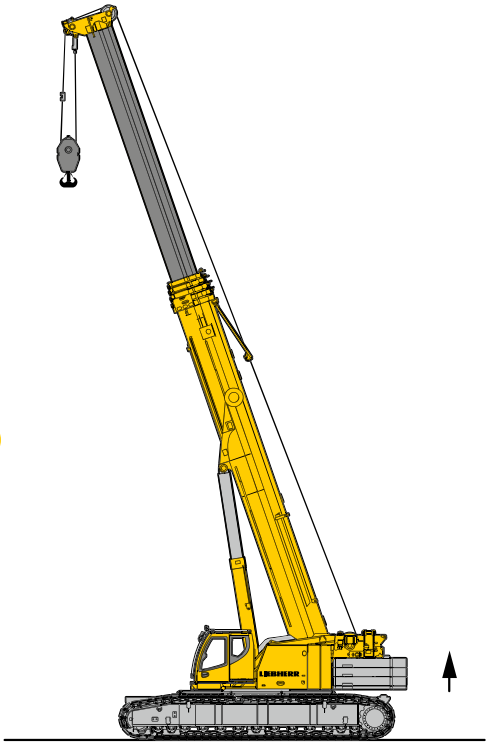


US2762



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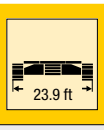
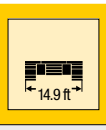
# Overview of load charts
# Aperçu des tableaux de charge

| |  | |  |
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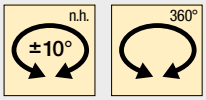
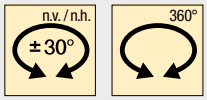
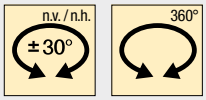
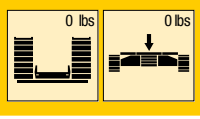
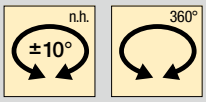
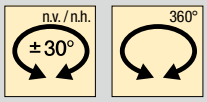
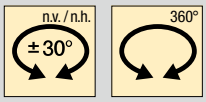
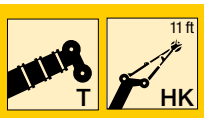
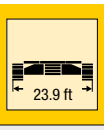
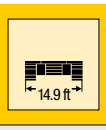
| 154350 lbs<br>110230 lbs<br>66100 lbs<br>22050 lbs<br>0 lbs |  |  |  |
|  |  |  |  |

|  |  | |  |
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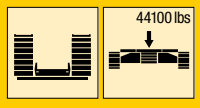
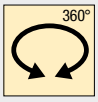
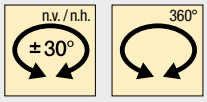
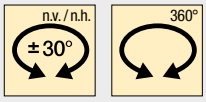
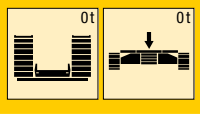
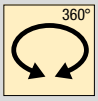
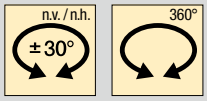
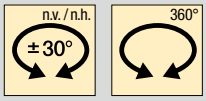
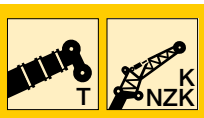
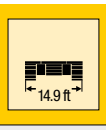
| 154350 lbs<br>110230 lbs<br>66100 lbs<br>22050 lbs<br>0 lbs  |  |  |  |
|  |  |  |  |

|  | | |  |
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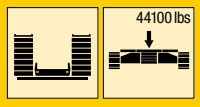
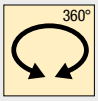
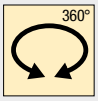
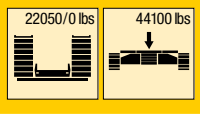
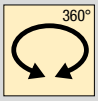
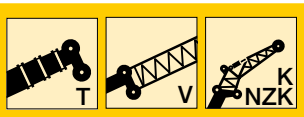
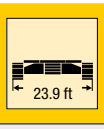
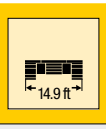
| 154350 lbs<br>110230 lbs<br>66100 lbs  |  |  | – |
|  |  | – | – |

|  |  | |  |
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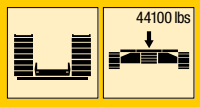
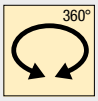
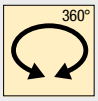
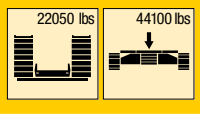
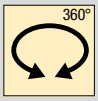
| 154350 lbs<br>110230 lbs<br>66100 lbs  |  |  | – |
|  |  | – | – |

ballast versions see operation manual · variantes de lestage, voir le manuel d'instructions

n.v. / n.h. = over front/rear · en avant/arrière

NESS CAMPBELL CRANE + RIGGING

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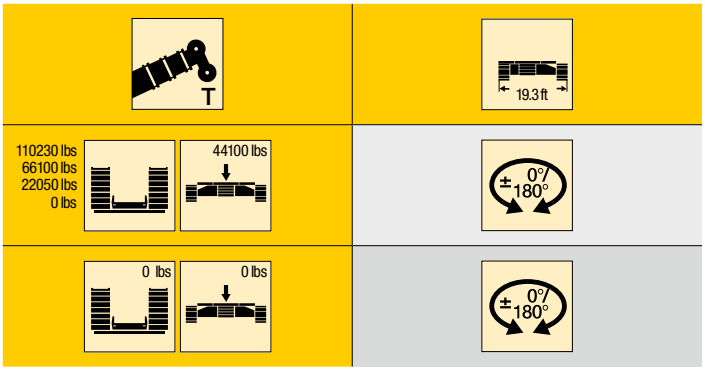
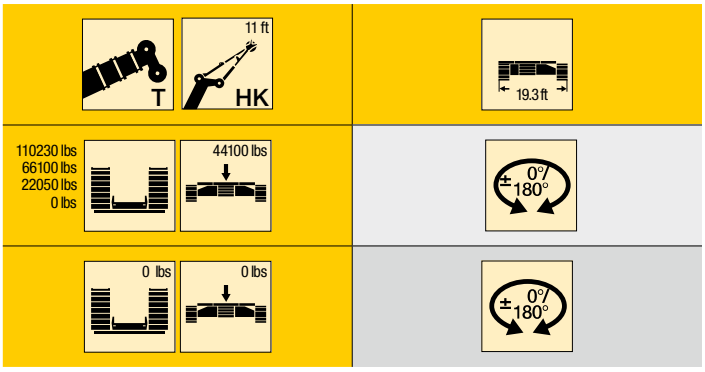
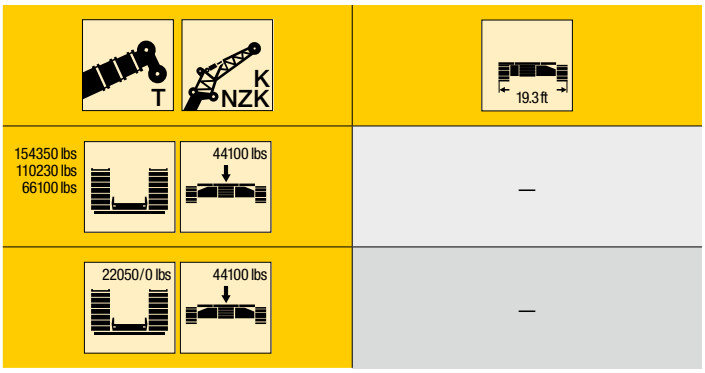
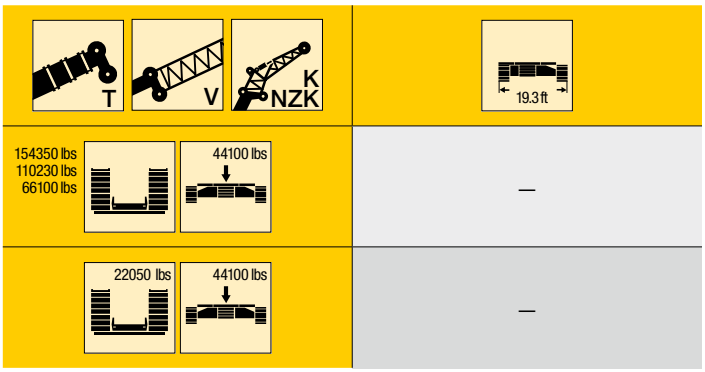
# Overview of load charts
# Aperçu des tableaux de charge




ballast versions see operation manual · variantes de lestage, voir le manuel d'instructions

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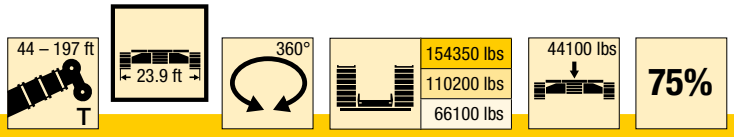
# Lifting capacities
# Forces de levage

T




| ft | 44 ft * | 44 ft | 58 ft | 72 ft | 86 ft | 100 ft | 114 ft | 128 ft | 142 ft | 156 ft | 171 ft | 185 ft | 197 ft | ft |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 485 | 295.4 | 295.4 | 295.4 | | | | | | | | | | 10 |
| 11 | 330 | 295.4 | 295.4 | 295.4 | | | | | | | | | | 11 |
| 12 | 323 | 294.1 | 295.2 | 293.9 | 240.9 | | | | | | | | | 12 |
| 13 | 311.2 | 290.2 | 289.5 | 288.3 | 261.8 | | | | | | | | | 13 |
| 14 | 292.4 | 277.9 | 278.2 | 276.9 | 263.7 | | | | | | | | | 14 |
| 15 | 277.9 | 266.7 | 266.9 | 263.5 | 259 | | | | | | | | | 15 |
| 16 | 265.4 | 256.1 | 255.8 | 249.8 | 244.8 | 216.9 | | | | | | | | 16 |
| 17 | 254.2 | 246.2 | 245.8 | 240.2 | 235.6 | 216.5 | | | | | | | | 17 |
| 18 | 244.5 | 237 | 237.4 | 231.7 | 226.3 | 215 | | | | | | | | 18 |
| 19 | 235.5 | 228.2 | 229.4 | 223.2 | 217.7 | 212.1 | 176 | | | | | | | 19 |
| 20 | 226.9 | 219.7 | 221.2 | 215.2 | 210 | 205.8 | 175.4 | | | | | | | 20 |
| 22 | 211.2 | 204.3 | 206 | 201.3 | 195.8 | 191.7 | 174 | 117.7 | | | | | | 22 |
| 24 | 196.8 | 190.7 | 192.5 | 188.7 | 183.5 | 179.3 | 171.7 | 124.8 | | | | | | 24 |
| 26 | 183.3 | 178.6 | 180.4 | 177.6 | 172.6 | 168.4 | 167.1 | 120.8 | 99.5 | | | | | 26 |
| 28 | 170.3 | 167.7 | 169.5 | 167.6 | 163.1 | 160.6 | 158.2 | 116.4 | 98.7 | | | | | 28 |
| 30 | 157.3 | 157 | 159.2 | 158.7 | 154.4 | 153 | 149.6 | 111.9 | 96.2 | 81 | | | | 30 |
| 32 | 143.3 | 143.3 | 150.1 | 150.5 | 146.4 | 145.4 | 141.8 | 107.6 | 93.4 | 79.6 | | | | 32 |
| 34 | 126.7 | 126.7 | 141.5 | 142 | 139.1 | 138.1 | 134.8 | 103.4 | 90.4 | 77.9 | 64.6 | | | 34 |
| 36 | 99.3 | 99.3 | 133.3 | 133.9 | 132.7 | 131.8 | 128.5 | 99.2 | 87.4 | 75.9 | 63.8 | | | 36 |
| 38 | | | 125.9 | 126.5 | 125.8 | 125.9 | 122.8 | 95.1 | 84.9 | 73.9 | 62.5 | | | 38 |
| 40 | | | 118.8 | 119.5 | 118.9 | 120.4 | 117.3 | 91.2 | 82.6 | 71.9 | 61.2 | 52.1 | | 40 |
| 45 | | | 101.7 | 104.2 | 103.5 | 105.5 | 104.2 | 82.7 | 76.8 | 67.1 | 57.7 | 49.8 | 41.8 | 45 |
| 50 | | | 68.8 | 90.8 | 93.3 | 92.3 | 90.8 | 75.1 | 70.9 | 62.8 | 54.3 | 47.1 | 40 | 50 |
| 55 | | | | 82.2 | 82.3 | 81.3 | 80 | 68.7 | 65.5 | 58.8 | 51.1 | 44.6 | 38 | 55 |
| 60 | | | | 72.1 | 73.4 | 72.4 | 71 | 63.4 | 60.6 | 54.9 | 48.2 | 42.2 | 36.1 | 60 |
| 65 | | | | | 65.9 | 64.9 | 63.5 | 59.7 | 56.1 | 51.3 | 45.6 | 39.9 | 34.3 | 65 |
| 70 | | | | | 59.7 | 58.6 | 57.2 | 56.6 | 52.2 | 48 | 43.1 | 37.9 | 32.6 | 70 |
| 75 | | | | | 52 | 53.2 | 51.7 | 53.5 | 48.5 | 45.1 | 40.9 | 36 | 31 | 75 |
| 80 | | | | | | 48.5 | 47.2 | 48.8 | 45.3 | 42.4 | 38.8 | 34.2 | 29.5 | 80 |
| 85 | | | | | | 44.4 | 45 | 44.6 | 42.2 | 39.9 | 36.9 | 32.5 | 28 | 85 |
| 90 | | | | | | 39.4 | 42.4 | 40.9 | 39.2 | 37.9 | 35.1 | 30.9 | 26.7 | 90 |
| 95 | | | | | | | 39.2 | 37.6 | 36 | 35.9 | 33.3 | 29.5 | 25.4 | 95 |
| 100 | | | | | | | 36.3 | 34.7 | 33.9 | 33.8 | 31.6 | 28.1 | 24.3 | 100 |
| 105 | | | | | | | 28.2 | 32.1 | 31.8 | 31.3 | 29.9 | 26.8 | 23.2 | 105 |
| 110 | | | | | | | | 29.7 | 30.4 | 28.9 | 28.3 | 25.7 | 22.2 | 110 |
| 115 | | | | | | | | 27.5 | 28.3 | 26.7 | 26.7 | 24.5 | 21.2 | 115 |
| 120 | | | | | | | | 20.5 | 26.3 | 25.4 | 25 | 23.5 | 20.3 | 120 |
| 125 | | | | | | | | | 24.5 | 23.8 | 23.2 | 22.5 | 19.4 | 125 |
| 130 | | | | | | | | | 22.4 | 22.7 | 21.5 | 21.1 | 18.6 | 130 |
| 135 | | | | | | | | | 12.6 | 21.4 | 19.9 | 19.6 | 17.8 | 135 |
| 140 | | | | | | | | | | 19.9 | 18.9 | 18.1 | 17.1 | 140 |
| 145 | | | | | | | | | | 17.1 | 18 | 16.8 | 16.5 | 145 |
| 150 | | | | | | | | | | | 16.8 | 15.5 | 15.7 | 150 |
| 155 | | | | | | | | | | | 15.7 | 14.4 | 14.6 | 155 |
| 160 | | | | | | | | | | | 12.2 | 13.3 | 13.5 | 160 |
| 165 | | | | | | | | | | | | 12.3 | 12.5 | 165 |
| 170 | | | | | | | | | | | | 11.4 | 11.5 | 170 |
| 175 | | | | | | | | | | | | 7.7 | 10.6 | 175 |
| 180 | | | | | | | | | | | | | 9.8 | 180 |
| 185 | | | | | | | | | | | | | 8.1 | 185 |

* 0° = over rear/front · en arrière/avant

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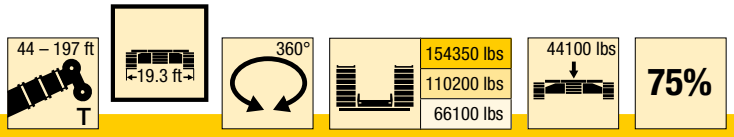
# Lifting capacities
# Forces de levage

T




| ft | 44 ft | 58 ft | 72 ft | 86 ft | 100 ft | 114 ft | 128 ft | 142 ft | 156 ft | 171 ft | 185 ft | 197 ft | ft |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 295.4 | 295.4 | 295.4 | | | | | | | | | | 10 |
| 11 | 295.4 | 295.4 | 295.4 | | | | | | | | | | 11 |
| 12 | 294.1 | 295.2 | 293.9 | 240.9 | | | | | | | | | 12 |
| 13 | 290.2 | 289.5 | 288.3 | 261.8 | | | | | | | | | 13 |
| 14 | 277.9 | 278.2 | 276.9 | 263.7 | | | | | | | | | 14 |
| 15 | 266.7 | 266.9 | 263.5 | 259 | | | | | | | | | 15 |
| 16 | 256.1 | 255.8 | 249.8 | 244.8 | 216.9 | | | | | | | | 16 |
| 17 | 246.2 | 245.8 | 240.2 | 235.6 | 216.5 | | | | | | | | 17 |
| 18 | 237 | 237.4 | 231.7 | 226.3 | 213.6 | | | | | | | | 18 |
| 19 | 228.2 | 229.4 | 223.2 | 217.7 | 207.7 | 176 | | | | | | | 19 |
| 20 | 219.7 | 221.2 | 215.2 | 210 | 200.8 | 175.4 | | | | | | | 20 |
| 22 | 204.3 | 206 | 201.3 | 195.8 | 187 | 169.7 | 117.7 | | | | | | 22 |
| 24 | 190.7 | 192.5 | 188.7 | 183.5 | 175.5 | 160.4 | 124.8 | | | | | | 24 |
| 26 | 178.6 | 180.4 | 177.6 | 172.6 | 168.2 | 151.3 | 120.8 | 99.5 | | | | | 26 |
| 28 | 167.7 | 169.5 | 167.6 | 162.5 | 158.7 | 143 | 116.4 | 98.7 | | | | | 28 |
| 30 | 156.8 | 159.1 | 158.7 | 151.4 | 147 | 135.6 | 111.9 | 96.2 | 81 | | | | 30 |
| 32 | 142.5 | 145.4 | 146.1 | 140.2 | 137 | 128.8 | 107.6 | 93.4 | 79.6 | | | | 32 |
| 34 | 126.7 | 132.6 | 133.6 | 130.4 | 127.6 | 120.8 | 103.4 | 90.4 | 77.9 | 64.6 | | | 34 |
| 36 | 99.3 | 121.8 | 122.7 | 123.7 | 119.8 | 113.3 | 99.2 | 87.4 | 75.9 | 63.8 | | | 36 |
| 38 | | 112.4 | 113.3 | 116 | 112.5 | 106.7 | 95.1 | 84.9 | 73.9 | 62.5 | | | 38 |
| 40 | | 105.5 | 107 | 107.6 | 106 | 100.5 | 91.2 | 82.6 | 71.9 | 61.2 | 52.1 | | 40 |
| 45 | | 88.9 | 90.6 | 90.9 | 90.1 | 87.6 | 82.6 | 76.8 | 67.1 | 57.7 | 49.8 | 41.8 | 45 |
| 50 | | 68.8 | 78 | 78.2 | 77.4 | 76 | 73.1 | 70.9 | 62.8 | 54.3 | 47.1 | 40 | 50 |
| 55 | | | 68.1 | 68.2 | 67.3 | 66.2 | 66.8 | 64.9 | 58.8 | 51.1 | 44.6 | 38 | 55 |
| 60 | | | 60.2 | 60.3 | 59.4 | 59.3 | 59.9 | 58.1 | 54.9 | 48.2 | 42.2 | 36.1 | 60 |
| 65 | | | | 53.7 | 52.8 | 54.6 | 53.3 | 51.9 | 51 | 45.6 | 39.9 | 34.3 | 65 |
| 70 | | | | 48.3 | 47.9 | 49.1 | 47.8 | 47.1 | 46.5 | 43.1 | 37.9 | 32.6 | 70 |
| 75 | | | | 43.7 | 45.1 | 44.3 | 43 | 42.9 | 42.4 | 40.9 | 36 | 31 | 75 |
| 80 | | | | | 41.2 | 40.3 | 39.1 | 39.8 | 38.4 | 38.1 | 34.2 | 29.5 | 80 |
| 85 | | | | | 37.8 | 36.8 | 35.9 | 36.3 | 35.6 | 34.8 | 32.5 | 28 | 85 |
| 90 | | | | | 34.8 | 33.8 | 33.9 | 33.2 | 32.7 | 32.2 | 30.9 | 26.7 | 90 |
| 95 | | | | | | 31.1 | 31.7 | 30.4 | 30.4 | 29.4 | 29.1 | 25.4 | 95 |
| 100 | | | | | | 28.8 | 29.3 | 28.2 | 28.2 | 27.4 | 26.7 | 24.3 | 100 |
| 105 | | | | | | 26.7 | 27.2 | 26.2 | 26 | 25.6 | 24.5 | 23.2 | 105 |
| 110 | | | | | | | 25.2 | 24.7 | 24.1 | 23.6 | 22.5 | 22.2 | 110 |
| 115 | | | | | | | 23.5 | 23.3 | 22.3 | 21.8 | 20.6 | 20.8 | 115 |
| 120 | | | | | | | 20.5 | 21.7 | 20.7 | 20.1 | 18.9 | 19.1 | 120 |
| 125 | | | | | | | | 20.3 | 19.4 | 18.6 | 17.3 | 17.6 | 125 |
| 130 | | | | | | | | 19 | 18 | 17.1 | 15.9 | 16.1 | 130 |
| 135 | | | | | | | | 12.6 | 16.7 | 15.8 | 14.6 | 14.8 | 135 |
| 140 | | | | | | | | | 15.5 | 14.6 | 13.4 | 13.6 | 140 |
| 145 | | | | | | | | | 14.4 | 13.5 | 12.3 | 12.5 | 145 |
| 150 | | | | | | | | | | 12.5 | 11.2 | 11.4 | 150 |
| 155 | | | | | | | | | | 11.5 | 10.2 | 10.4 | 155 |
| 160 | | | | | | | | | | 10.7 | 9.4 | 9.5 | 160 |
| 165 | | | | | | | | | | | 8.5 | 8.7 | 165 |
| 170 | | | | | | | | | | | 7.8 | 7.9 | 170 |
| 175 | | | | | | | | | | | 7.1 | 7.1 | 175 |
| 180 | | | | | | | | | | | | 6.4 | 180 |
| 185 | | | | | | | | | | | | 5.8 | 185 |

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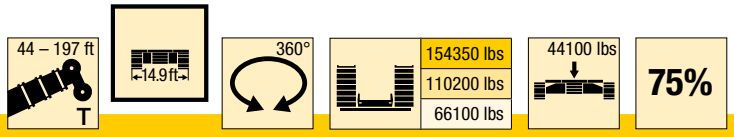
# Lifting capacities
# Forces de levage

T




| ft | 44 ft | 58 ft | 72 ft | 86 ft | 100 ft | 114 ft | 128 ft | 142 ft | 156 ft | 171 ft | 185 ft | 197 ft | ft |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 294 | 237.9 | 189.2 | | | | | | | | | | 10 |
| 11 | 265.4 | 224 | 179.5 | | | | | | | | | | 11 |
| 12 | 237.6 | 209.6 | 170.6 | 135.9 | | | | | | | | | 12 |
| 13 | 213.3 | 193.7 | 162.4 | 136.6 | | | | | | | | | 13 |
| 14 | 193.9 | 179.2 | 155.1 | 132.1 | | | | | | | | | 14 |
| 15 | 177.5 | 165.2 | 148.3 | 127.3 | | | | | | | | | 15 |
| 16 | 196.7 | 182.9 | 141.4 | 122.6 | 106 | | | | | | | | 16 |
| 17 | 196.4 | 179.1 | 164.6 | 136.6 | 102.7 | | | | | | | | 17 |
| 18 | 190.4 | 174.3 | 161.3 | 131.6 | 99.5 | | | | | | | | 18 |
| 19 | 178.8 | 165.6 | 152.7 | 130.5 | 96.4 | 85.3 | | | | | | | 19 |
| 20 | 167.8 | 159.4 | 144 | 126.1 | 107.9 | 82.9 | | | | | | | 20 |
| 22 | 145.8 | 142.7 | 133 | 122.4 | 101.3 | 91.7 | 69.4 | | | | | | 22 |
| 24 | 127.2 | 128.8 | 123.2 | 112.5 | 99.5 | 86.7 | 66.5 | | | | | | 24 |
| 26 | 112.5 | 116.4 | 112.4 | 106.6 | 99.7 | 87.5 | 76.1 | 56.8 | | | | | 26 |
| 28 | 100.5 | 104.5 | 103.1 | 98.4 | 94.5 | 84.8 | 76.6 | 68 | | | | | 28 |
| 30 | 116.2 | 94.3 | 95.2 | 105.4 | 89.3 | 82.6 | 74.5 | 67.1 | 60.4 | | | | 30 |
| 32 | 105.8 | 105.2 | 103.6 | 97.4 | 83.3 | 78.5 | 73.1 | 65.7 | 59.1 | | | | 32 |
| 34 | 96.9 | 99.3 | 97.6 | 93.5 | 77.7 | 73.5 | 70.2 | 64.3 | 58.4 | 52.9 | | | 34 |
| 36 | 89.1 | 91.5 | 89.8 | 87.4 | 82.4 | 68.9 | 67.3 | 61.8 | 56.3 | 51 | | | 36 |
| 38 | | 85.9 | 85.5 | 81.4 | 80.8 | 64.9 | 63.6 | 59.6 | 54.3 | 49.2 | | | 38 |
| 40 | | 79.9 | 79.5 | 78.9 | 75.9 | 71.7 | 60 | 57.5 | 52.4 | 47.5 | 42.7 | | 40 |
| 45 | | 67.6 | 69.2 | 69.4 | 68.6 | 66.8 | 63.4 | 59.8 | 48.1 | 43.6 | 39.1 | 37.1 | 45 |
| 50 | | 58.2 | 59.6 | 59.8 | 61.7 | 59.6 | 58.7 | 55.7 | 52.7 | 40 | 36 | 34.2 | 50 |
| 55 | | | 52.5 | 52.2 | 54 | 53.2 | 52.2 | 51.2 | 49.2 | 47.2 | 32.9 | 31.6 | 55 |
| 60 | | | 46.4 | 47.7 | 47.8 | 46.9 | 47.7 | 46.5 | 45 | 42.8 | 40.8 | 36.1 | 60 |
| 65 | | | | 42.7 | 42.6 | 41.8 | 42.6 | 41.7 | 40.7 | 39.1 | 36.8 | 34.3 | 65 |
| 70 | | | | 38.4 | 38.3 | 38.7 | 38.2 | 37.9 | 36.9 | 35.5 | 33.2 | 32.6 | 70 |
| 75 | | | | 34.8 | 34.6 | 35.1 | 34.5 | 34.4 | 33.8 | 32.3 | 30.1 | 29.8 | 75 |
| 80 | | | | | 31.6 | 31.9 | 31.3 | 31.2 | 30.6 | 29.4 | 27.3 | 27.1 | 80 |
| 85 | | | | | 29 | 29.1 | 28.8 | 28.4 | 27.8 | 26.9 | 24.8 | 24.6 | 85 |
| 90 | | | | | 26.6 | 26.7 | 26.3 | 25.9 | 25.3 | 24.5 | 22.6 | 22.4 | 90 |
| 95 | | | | | | 24.6 | 24.2 | 23.7 | 23.1 | 22.3 | 20.6 | 20.4 | 95 |
| 100 | | | | | | 22.7 | 22.2 | 21.8 | 21.1 | 20.3 | 18.8 | 18.6 | 100 |
| 105 | | | | | | 21 | 20.5 | 20 | 19.3 | 18.4 | 17.1 | 17 | 105 |
| 110 | | | | | | | 18.9 | 18.4 | 17.6 | 16.7 | 15.5 | 15.5 | 110 |
| 115 | | | | | | | 17.4 | 16.9 | 16.1 | 15.2 | 14 | 14.2 | 115 |
| 120 | | | | | | | 16.1 | 15.5 | 14.7 | 13.8 | 12.6 | 12.8 | 120 |
| 125 | | | | | | | | 14.3 | 13.4 | 12.5 | 11.3 | 11.6 | 125 |
| 130 | | | | | | | | 13.2 | 12.3 | 11.4 | 10.2 | 10.4 | 130 |
| 135 | | | | | | | | 12.2 | 11.2 | 10.3 | 9.1 | 9.3 | 135 |
| 140 | | | | | | | | | 10.2 | 9.3 | 8.1 | 8.3 | 140 |
| 145 | | | | | | | | | 9.4 | 8.4 | 7.2 | 7.4 | 145 |
| 150 | | | | | | | | | | 7.6 | 6.4 | 6.5 | 150 |
| 155 | | | | | | | | | | 6.8 | 5.6 | 5.7 | 155 |
| 160 | | | | | | | | | | 6.2 | 4.9 | 5 | 160 |
| 165 | | | | | | | | | | | 4.2 | 4.3 | 165 |
| 170 | | | | | | | | | | | 3.6 | 3.7 | 170 |
| 175 | | | | | | | | | | | 3 | 3.1 | 175 |
| 180 | | | | | | | | | | | | 2.5 | 180 |

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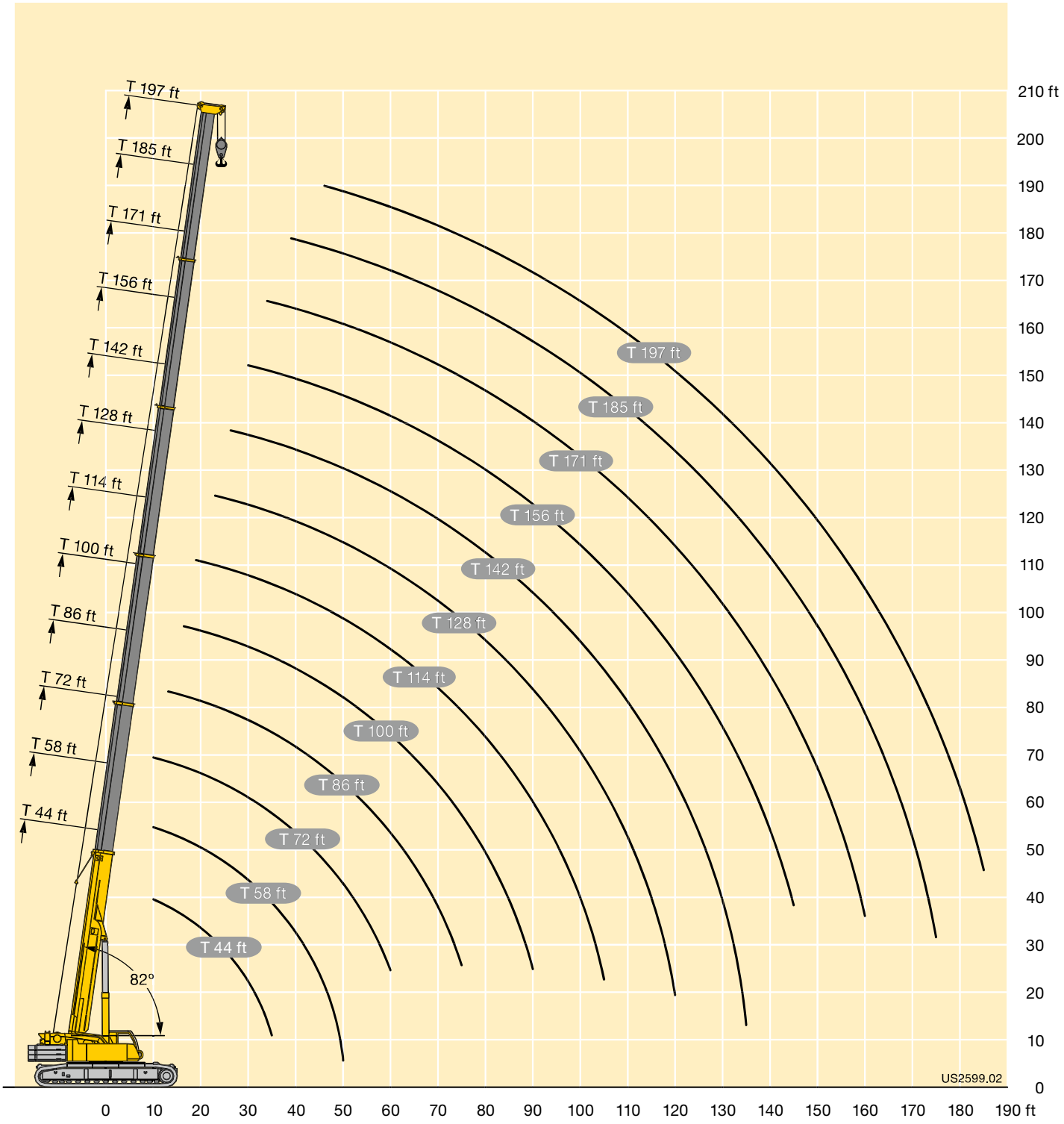
# Lifting heights
# Hauteurs de levage

**T**







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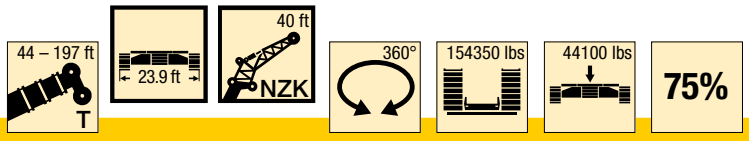
# Lifting capacities
# Forces de levage

**TNZK**




| ft | 44 ft | | | 58 ft | | | 72 ft | | | 86 ft | | | 100 ft | | | 114 ft | | | ft |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 40 ft | | | 40 ft | | | 40 ft | | | 40 ft | | | 40 ft | | | 40 ft | | | |
| | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | |
| 10 | 46.1 | | | | | | | | | | | | | | | | | | 10 |
| 11 | 46.1 | | | 46.1 | | | | | | | | | | | | | | | 11 |
| 12 | 46.1 | | | 46.1 | | | | | | | | | | | | | | | 12 |
| 13 | 46.1 | | | 46.1 | | | 46.1 | | | | | | | | | | | | 13 |
| 14 | 46.1 | | | 46.1 | | | 46.1 | | | | | | | | | | | | 14 |
| 15 | 46.1 | | | 46.1 | | | 46.1 | | | | | | | | | | | | 15 |
| 16 | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | | | | | | | 16 |
| 17 | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | | | | | | | 17 |
| 18 | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | | | | | | | 18 |
| 19 | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | | | | 19 |
| 20 | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | | | | 20 |
| 22 | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | | | | 22 |
| 24 | 46.1 | 36.8 | | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | 24 |
| 26 | 46.1 | 35 | | 46.1 | 36.6 | | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | 26 |
| 28 | 46.1 | 33.3 | | 46.1 | 35.1 | | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | 28 |
| 30 | 45.7 | 31.8 | | 46.1 | 33.7 | | 46.1 | 34.5 | | 46.1 | | | 46.1 | | | 46.1 | | | 30 |
| 32 | 44.4 | 30.5 | | 46.1 | 32.4 | | 46.1 | 33.3 | | 46.1 | | | 46.1 | | | 46.1 | | | 32 |
| 34 | 42.9 | 29.3 | 23.2 | 46.1 | 31.2 | | 46.1 | 32.2 | | 46.1 | 33.2 | | 46 | | | 45.8 | | | 34 |
| 36 | 41.4 | 28.2 | 23.2 | 45.9 | 30.1 | 23.2 | 46 | 31.2 | | 46.1 | 32.2 | | 45.3 | 32.6 | | 45.3 | | | 36 |
| 38 | 39.5 | 27.2 | 23.1 | 44.7 | 29.1 | 23.2 | 45.8 | 30.2 | | 45.6 | 31.3 | | 44.5 | 31.7 | | 44.5 | | | 38 |
| 40 | 37.3 | 26.2 | 22.7 | 43 | 28.2 | 23.2 | 44.5 | 29.3 | 23.2 | 45.1 | 30.4 | | 43.2 | 30.9 | | 43.5 | 31.5 | | 40 |
| 45 | 32.5 | 24.1 | 21.5 | 38.5 | 26 | 22.3 | 40.7 | 27.3 | 22.7 | 43.2 | 28.4 | | 39.6 | 29 | | 40.3 | 29.7 | | 45 |
| 50 | 28.7 | 22.3 | 20.5 | 34.3 | 24.3 | 21.3 | 37.2 | 25.6 | 21.8 | 39.9 | 26.7 | 22.3 | 36.3 | 27.4 | 22.6 | 37.4 | 28.1 | | 50 |
| 55 | 25.6 | 20.8 | 19.8 | 30.8 | 22.7 | 20.5 | 33.9 | 24.1 | 21.1 | 36.9 | 25.3 | 21.6 | 33.5 | 26 | 21.8 | 34.8 | 26.6 | 22.1 | 55 |
| 60 | 23.2 | 19.5 | 19.2 | 27.8 | 21.4 | 19.9 | 31.2 | 22.8 | 20.4 | 34.2 | 23.9 | 20.9 | 31 | 24.7 | 21.2 | 32.4 | 25.4 | 21.5 | 60 |
| 65 | 21 | 18.5 | 19 | 25.3 | 20.2 | 19.4 | 28.8 | 21.6 | 19.9 | 31.8 | 22.8 | 20.4 | 28.9 | 23.5 | 20.7 | 30.3 | 24.3 | 21 | 65 |
| 70 | 19.2 | 17.6 | 10.4 | 23.3 | 19.2 | 19.1 | 26.6 | 20.6 | 19.5 | 29.5 | 21.8 | 19.9 | 26.8 | 22.5 | 20.2 | 28.5 | 23.3 | 20.5 | 70 |
| 75 | 17.6 | 17.4 | | 21.4 | 18.4 | 19 | 24.7 | 19.7 | 19.1 | 27.5 | 20.9 | 19.5 | 25.1 | 21.7 | 19.8 | 26.8 | 22.4 | 20.1 | 75 |
| 80 | | | | 19.8 | 17.7 | | 22.9 | 18.9 | 19 | 25.7 | 20.1 | 19.2 | 23.4 | 20.8 | 19.5 | 25.2 | 21.6 | 19.8 | 80 |
| 85 | | | | 18.5 | 17.3 | | 21.4 | 18.3 | 18.9 | 24.2 | 19.3 | 19.1 | 22 | 20.1 | 19.3 | 23.8 | 20.9 | 19.5 | 85 |
| 90 | | | | 17.3 | | | 20.1 | 17.7 | 18.9 | 22.7 | 18.7 | 19 | 20.6 | 19.4 | 19 | 22.4 | 20.2 | 19.3 | 90 |
| 95 | | | | | | | 18.9 | 17.4 | | 21.4 | 18.2 | 19 | 19.4 | 18.8 | 18.7 | 21.2 | 19.7 | 19.1 | 95 |
| 100 | | | | | | | 17.9 | 17.3 | | 20.2 | 17.7 | 19 | 18.3 | 18 | 18.1 | 20.1 | 19 | 18.9 | 100 |
| 105 | | | | | | | | | | 19.2 | 17.4 | 19 | 17.3 | 17.1 | 17.3 | 19.1 | 18.4 | 18.3 | 105 |
| 110 | | | | | | | | | | 18.3 | 17.3 | | 16.3 | 16.2 | 16.5 | 18.1 | 17.7 | 17.6 | 110 |
| 115 | | | | | | | | | | 17.5 | | | 15.5 | 15.4 | 15.7 | 17.3 | 16.9 | 17 | 115 |
| 120 | | | | | | | | | | | | | 14.7 | 14.7 | | 16.5 | 16.2 | 16.4 | 120 |
| 125 | | | | | | | | | | | | | 14.1 | 14.1 | | 15.7 | 15.6 | 15.8 | 125 |
| 130 | | | | | | | | | | | | | 13.5 | | | 15.1 | 15 | 15.2 | 130 |
| 135 | | | | | | | | | | | | | | | | 14.5 | 14.4 | | 135 |
| 140 | | | | | | | | | | | | | | | | 14 | | | 140 |
| 145 | | | | | | | | | | | | | | | | 13.5 | | | 145 |

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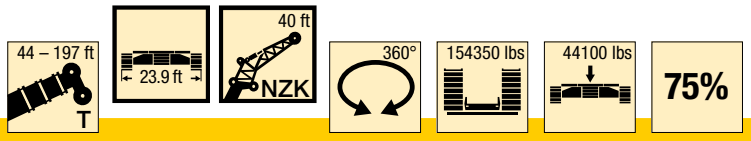
# Lifting capacities
# Forces de levage

**TNZK**




| ft | 128 ft | | | 142 ft | | | 156 ft | | | 171 ft | | | 185 ft | | | 197 ft | | | ft |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 40 ft | | | 40 ft | | | 40 ft | | | 40 ft | | | 40 ft | | | 40 ft | | | |
| | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | |
| 30 | 42.6 | | | 45.3 | | | | | | | | | | | | | | | 30 |
| 32 | 42.4 | | | 45.1 | | | | | | | | | | | | | | | 32 |
| 34 | 42.2 | | | 44.9 | | | | | | | | | | | | | | | 34 |
| 36 | 41.9 | | | 44.6 | | | 40.4 | | | | | | | | | | | | 36 |
| 38 | 41.7 | | | 44.3 | | | 40.2 | | | | | | | | | | | | 38 |
| 40 | 41.2 | | | 44 | | | 40 | | | 34.7 | | | | | | | | | 40 |
| 45 | 38.8 | | | 43 | | | 39.3 | | | 34.3 | | | | | | | | | 45 |
| 50 | 36 | 28.3 | | 41.8 | 30.5 | | 38.6 | | | 33.9 | | | 28.5 | | | | | | 50 |
| 55 | 33.6 | 27 | 22.2 | 40.6 | 29 | | 37.8 | 29.3 | | 33.5 | | | 28 | | | 24 | | | 55 |
| 60 | 31.4 | 25.7 | 21.7 | 39.4 | 27.6 | 22.3 | 37 | 27.9 | 22.6 | 32.9 | 27.6 | | 27.6 | | | 23.6 | | | 60 |
| 65 | 29.3 | 24.7 | 21.1 | 37.8 | 26.4 | 21.8 | 36.1 | 26.8 | 22 | 32.1 | 26.5 | | 27.3 | | | 23.2 | 22.2 | | 65 |
| 70 | 27.4 | 23.7 | 20.7 | 36 | 25.3 | 21.3 | 34.9 | 25.7 | 21.5 | 31 | 25.5 | 21.5 | 26.8 | 24.8 | | 22.9 | 22 | | 70 |
| 75 | 25.7 | 22.9 | 20.3 | 34.1 | 24.4 | 20.9 | 33.6 | 24.8 | 21.1 | 29.7 | 24.5 | 21 | 25.8 | 24 | 20.9 | 22.5 | 21.6 | | 75 |
| 80 | 24.2 | 22.1 | 19.9 | 32.2 | 23.5 | 20.5 | 32.1 | 23.9 | 20.7 | 28.2 | 23.7 | 20.6 | 24.8 | 23.2 | 20.6 | 21.6 | 20.7 | 19.7 | 80 |
| 85 | 22.7 | 21.3 | 19.7 | 30.4 | 22.8 | 20.2 | 30.5 | 23.1 | 20.4 | 26.9 | 23 | 20.3 | 23.7 | 22.5 | 20.2 | 20.6 | 20 | 19 | 85 |
| 90 | 21.4 | 20.5 | 19.4 | 28.8 | 22 | 19.9 | 29 | 22.4 | 20.1 | 25.7 | 22.3 | 20.1 | 22.7 | 21.7 | 20 | 19.7 | 19.2 | 18.3 | 90 |
| 95 | 20.2 | 19.7 | 19.1 | 27.2 | 21.4 | 19.6 | 27.6 | 21.8 | 19.8 | 24.5 | 21.7 | 19.8 | 21.7 | 20.9 | 19.7 | 18.9 | 18.5 | 17.7 | 95 |
| 100 | 19.1 | 18.8 | 18.8 | 25.8 | 20.8 | 19.4 | 26.4 | 21.2 | 19.6 | 23.3 | 21.2 | 19.6 | 20.8 | 20.2 | 19.3 | 18.1 | 17.8 | 17.1 | 100 |
| 105 | 18.1 | 17.8 | 17.9 | 24.5 | 20.2 | 19.2 | 25.1 | 20.6 | 19.4 | 22.3 | 20.6 | 19.4 | 19.9 | 19.4 | 18.7 | 17.2 | 17.1 | 16.5 | 105 |
| 110 | 17.1 | 16.9 | 17.1 | 23.2 | 19.7 | 19.1 | 23.9 | 20.1 | 19.2 | 21.3 | 20.1 | 19.3 | 19 | 18.7 | 18.1 | 16.5 | 16.4 | 16 | 110 |
| 115 | 16.2 | 16.1 | 16.3 | 22.1 | 19.3 | 19 | 22.9 | 19.7 | 19.1 | 20.3 | 19.5 | 19 | 18.2 | 18 | 17.5 | 15.7 | 15.8 | 15.5 | 115 |
| 120 | 15.4 | 15.3 | 15.5 | 21 | 18.8 | 18.9 | 21.8 | 19.2 | 19 | 19.4 | 18.9 | 18.6 | 17.5 | 17.3 | 16.9 | 15 | 15.1 | 14.9 | 120 |
| 125 | 14.6 | 14.6 | 14.8 | 20 | 18.5 | 18.9 | 20.8 | 18.8 | 19 | 18.6 | 18.3 | 18.1 | 16.7 | 16.6 | 16.4 | 14.4 | 14.4 | 14.4 | 125 |
| 130 | 13.9 | 13.9 | 14.1 | 19.1 | 18.1 | 18.8 | 19.8 | 18.5 | 18.9 | 17.8 | 17.7 | 17.6 | 16 | 15.9 | 15.8 | 13.7 | 13.8 | 13.8 | 130 |
| 135 | 13.2 | 13.3 | 13.5 | 18.2 | 17.8 | 18.3 | 18.3 | 18.2 | 18.6 | 17 | 17 | 16.9 | 15.4 | 15.3 | 15.2 | 13.1 | 13.2 | 13.3 | 135 |
| 140 | 12.5 | 12.6 | 12.9 | 17.4 | 17.4 | 17.6 | 16.8 | 17.7 | 18.2 | 16.3 | 16.3 | 16.3 | 14.7 | 14.7 | 14.7 | 12.5 | 12.6 | 12.7 | 140 |
| 145 | 12 | 12.1 | | 16.6 | 16.7 | 16.9 | 15.5 | 16.5 | 17.3 | 15.6 | 15.6 | 15.7 | 14.1 | 14.1 | 14.1 | 11.9 | 12.1 | 12.2 | 145 |
| 150 | 11.4 | 11.5 | | 15.7 | 16 | 16.2 | 14.3 | 15.2 | 15.8 | 14.5 | 15 | 15.1 | 13.6 | 13.5 | 13.6 | 11.4 | 11.5 | 11.7 | 150 |
| 155 | 11 | | | 14.6 | 15.2 | 15.4 | 13.6 | 14 | 14.5 | 13.4 | 14.2 | 14.5 | 13 | 13 | 13.1 | 10.9 | 11 | 11.2 | 155 |
| 160 | 9.9 | | | 13.5 | 14 | | 13 | 13.1 | 13.3 | 12.3 | 13.2 | 13.7 | 12.5 | 12.5 | 12.6 | 10.4 | 10.5 | 10.7 | 160 |
| 165 | | | | 12.6 | 12.9 | | 12.4 | 12.6 | 12.7 | 11.4 | 12.1 | 12.6 | 11.8 | 12.1 | 12.1 | 10 | 10.1 | 10.3 | 165 |
| 170 | | | | 10.9 | 11.6 | | 11.7 | 12 | 12.2 | 10.9 | 11.1 | 11.5 | 10.9 | 11.5 | 11.7 | 9.5 | 9.7 | 9.8 | 170 |
| 175 | | | | 5.4 | | | 10.9 | 11.3 | | 10.5 | 10.6 | 10.7 | 10 | 10.7 | 11.2 | 9.2 | 9.3 | 9.4 | 175 |
| 180 | | | | | | | 10 | 9.3 | | 10 | 10.2 | 10.3 | 9.3 | 9.8 | 10.3 | 8.8 | 8.9 | 9.1 | 180 |
| 185 | | | | | | | 8.5 | 9 | | 9.7 | 9.8 | | 8.6 | 9.1 | 9.4 | 8.4 | 8.6 | 8.7 | 185 |
| 190 | | | | | | | | | | 9.1 | 9.4 | | 8 | 8.4 | 8.7 | 7.8 | 8.2 | 8.4 | 190 |
| 195 | | | | | | | | | | 8.3 | | | 7.4 | 7.8 | 8 | 7.2 | 7.7 | 8 | 195 |
| 200 | | | | | | | | | | 5.4 | | | 6.9 | 7.2 | 7.3 | 6.6 | 7.1 | 7.3 | 200 |
| 205 | | | | | | | | | | | | | 6.4 | 6.6 | 6.6 | 6.1 | 6.5 | 6.7 | 205 |
| 210 | | | | | | | | | | | | | 5.3 | 6 | | 5.6 | 6 | 6 | 210 |
| 215 | | | | | | | | | | | | | 2.2 | | | 5.1 | 5.4 | | 215 |
| 220 | | | | | | | | | | | | | | | | 4.6 | | | 220 |
| 225 | | | | | | | | | | | | | | | | 2.5 | | | 225 |

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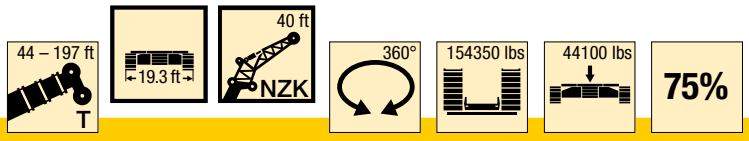
# Lifting capacities
# Forces de levage

**TNZK**




| ft | 44 ft | | | 58 ft | | | 72 ft | | | 86 ft | | | 100 ft | | | 114 ft | | | ft |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 40 ft | | | 40 ft | | | 40 ft | | | 40 ft | | | 40 ft | | | 40 ft | | | |
| | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | |
| 10 | 46.1 | | | | | | | | | | | | | | | | | | 10 |
| 11 | 46.1 | | | 46.1 | | | | | | | | | | | | | | | 11 |
| 12 | 46.1 | | | 46.1 | | | | | | | | | | | | | | | 12 |
| 13 | 46.1 | | | 46.1 | | | 46.1 | | | | | | | | | | | | 13 |
| 14 | 46.1 | | | 46.1 | | | 46.1 | | | | | | | | | | | | 14 |
| 15 | 46.1 | | | 46.1 | | | 46.1 | | | | | | | | | | | | 15 |
| 16 | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | | | | | | | 16 |
| 17 | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | | | | | | | 17 |
| 18 | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | | | | | | | 18 |
| 19 | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | | | | 19 |
| 20 | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | | | | 20 |
| 22 | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | | | | 22 |
| 24 | 46.1 | 36.8 | | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | 24 |
| 26 | 46.1 | 35 | | 46.1 | 36.6 | | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | 26 |
| 28 | 46.1 | 33.3 | | 46.1 | 35.1 | | 46.1 | | | 46.1 | | | 46.1 | | | 46.1 | | | 28 |
| 30 | 45.7 | 31.8 | | 46.1 | 33.7 | | 46.1 | 34.5 | | 46.1 | | | 46.1 | | | 46.1 | | | 30 |
| 32 | 44.4 | 30.5 | | 46.1 | 32.4 | | 46.1 | 33.3 | | 46.1 | | | 46.1 | | | 46.1 | | | 32 |
| 34 | 42.9 | 29.3 | 23.2 | 46.1 | 31.2 | | 46.1 | 32.2 | | 46.1 | 33.2 | | 46 | | | 45.8 | | | 34 |
| 36 | 41.4 | 28.2 | 23.2 | 45.9 | 30.1 | 23.2 | 46 | 31.2 | | 46.1 | 32.2 | | 45.3 | 32.6 | | 45.3 | | | 36 |
| 38 | 39.5 | 27.2 | 23.1 | 44.7 | 29.1 | 23.2 | 45.8 | 30.2 | | 45.6 | 31.3 | | 44.5 | 31.7 | | 44.5 | | | 38 |
| 40 | 37.3 | 26.2 | 22.7 | 43 | 28.2 | 23.2 | 44.5 | 29.3 | 23.2 | 45.1 | 30.4 | | 43.2 | 30.9 | | 43.5 | 31.5 | | 40 |
| 45 | 32.5 | 24.1 | 21.5 | 38.5 | 26 | 22.3 | 40.7 | 27.3 | 22.7 | 43.2 | 28.4 | | 39.6 | 29 | | 40.3 | 29.7 | | 45 |
| 50 | 28.7 | 22.3 | 20.5 | 34.3 | 24.3 | 21.3 | 37.2 | 25.6 | 21.8 | 39.9 | 26.7 | 22.3 | 36.3 | 27.4 | 22.6 | 37.4 | 28.1 | | 50 |
| 55 | 25.6 | 20.8 | 19.8 | 30.8 | 22.7 | 20.5 | 33.9 | 24.1 | 21.1 | 36.9 | 25.3 | 21.6 | 33.5 | 26 | 21.8 | 34.8 | 26.6 | 22.1 | 55 |
| 60 | 23.2 | 19.5 | 19.2 | 27.8 | 21.4 | 19.9 | 31.2 | 22.8 | 20.4 | 34.2 | 23.9 | 20.9 | 31 | 24.7 | 21.2 | 32.4 | 25.4 | 21.5 | 60 |
| 65 | 21 | 18.5 | 19 | 25.3 | 20.2 | 19.4 | 28.8 | 21.6 | 19.9 | 31.8 | 22.8 | 20.4 | 28.9 | 23.5 | 20.7 | 30.3 | 24.3 | 21 | 65 |
| 70 | 19.2 | 17.6 | 10.4 | 23.3 | 19.2 | 19.1 | 26.6 | 20.6 | 19.5 | 29.5 | 21.8 | 19.9 | 26.8 | 22.5 | 20.2 | 28.5 | 23.3 | 20.5 | 70 |
| 75 | 17.6 | 17.4 | | 21.4 | 18.4 | 19 | 24.7 | 19.7 | 19.1 | 27.5 | 20.9 | 19.5 | 25.1 | 21.7 | 19.8 | 26.8 | 22.4 | 20.1 | 75 |
| 80 | | | | 19.8 | 17.7 | | 22.9 | 18.9 | 19 | 25.7 | 20.1 | 19.2 | 23.4 | 20.8 | 19.5 | 25.2 | 21.6 | 19.8 | 80 |
| 85 | | | | 18.5 | 17.3 | | 21.4 | 18.3 | 18.9 | 24.2 | 19.3 | 19.1 | 22 | 20.1 | 19.3 | 23.8 | 20.9 | 19.5 | 85 |
| 90 | | | | 17.3 | | | 20.1 | 17.7 | 18.9 | 22.7 | 18.7 | 19 | 20.6 | 19.4 | 19 | 22.4 | 20.2 | 19.3 | 90 |
| 95 | | | | | | | 18.9 | 17.4 | | 21.4 | 18.2 | 19 | 19.4 | 18.8 | 18.7 | 21.2 | 19.7 | 19.1 | 95 |
| 100 | | | | | | | 17.9 | 17.3 | | 20.2 | 17.7 | 19 | 18.3 | 18 | 18.1 | 20.1 | 19 | 18.9 | 100 |
| 105 | | | | | | | | | | 19.2 | 17.4 | 19 | 17.3 | 17.1 | 17.3 | 19.1 | 18.4 | 18.3 | 105 |
| 110 | | | | | | | | | | 18.3 | 17.3 | | 16.3 | 16.2 | 16.5 | 18.1 | 17.7 | 17.6 | 110 |
| 115 | | | | | | | | | | 17.5 | | | 15.5 | 15.4 | 15.7 | 17.3 | 16.9 | 17 | 115 |
| 120 | | | | | | | | | | | | | 14.7 | 14.7 | | 16.5 | 16.2 | 16.4 | 120 |
| 125 | | | | | | | | | | | | | 14.1 | 14.1 | | 15.7 | 15.6 | 15.8 | 125 |
| 130 | | | | | | | | | | | | | 13.5 | | | 15.1 | 15 | 15.2 | 130 |
| 135 | | | | | | | | | | | | | | | | 14.5 | 14.4 | | 135 |
| 140 | | | | | | | | | | | | | | | | 14 | | | 140 |
| 145 | | | | | | | | | | | | | | | | 13.5 | | | 145 |

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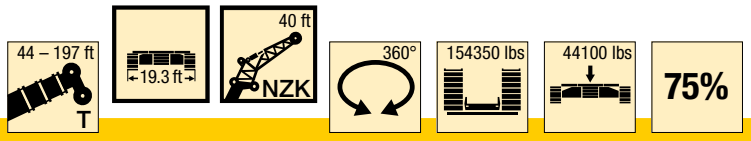
# Lifting capacities
# Forces de levage

**TNZK**




| ft | 128 ft | | | 142 ft | | | 156 ft | | | 171 ft | | | 185 ft | | | 197 ft | | | ft |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 40 ft | | | 40 ft | | | 40 ft | | | 40 ft | | | 40 ft | | | 40 ft | | | |
| | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | |
| 30 | 42.6 | | | 45.3 | | | | | | | | | | | | | | | 30 |
| 32 | 42.4 | | | 45.1 | | | | | | | | | | | | | | | 32 |
| 34 | 42.2 | | | 44.9 | | | | | | | | | | | | | | | 34 |
| 36 | 41.9 | | | 44.6 | | | 40.4 | | | | | | | | | | | | 36 |
| 38 | 41.7 | | | 44.3 | | | 40.2 | | | | | | | | | | | | 38 |
| 40 | 41.2 | | | 44 | | | 40 | | | 34.7 | | | | | | | | | 40 |
| 45 | 38.8 | | | 43 | | | 39.3 | | | 34.3 | | | | | | | | | 45 |
| 50 | 36 | 28.3 | | 41.8 | 30.5 | | 38.6 | | | 33.9 | | | 28.5 | | | | | | 50 |
| 55 | 33.6 | 27 | 22.2 | 40.6 | 29 | | 37.8 | 29.3 | | 33.5 | | | 28 | | | 24 | | | 55 |
| 60 | 31.4 | 25.7 | 21.7 | 39.4 | 27.6 | 22.3 | 37 | 27.9 | 22.6 | 32.9 | 27.6 | | 27.6 | | | 23.6 | | | 60 |
| 65 | 29.3 | 24.7 | 21.1 | 37.8 | 26.4 | 21.8 | 36.1 | 26.8 | 22 | 32.1 | 26.5 | | 27.3 | | | 23.2 | 22.2 | | 65 |
| 70 | 27.4 | 23.7 | 20.7 | 36 | 25.3 | 21.3 | 34.9 | 25.7 | 21.5 | 31 | 25.5 | 21.5 | 26.8 | 24.8 | | 22.9 | 22 | | 70 |
| 75 | 25.7 | 22.9 | 20.3 | 34.1 | 24.4 | 20.9 | 33.6 | 24.8 | 21.1 | 29.7 | 24.5 | 21 | 25.8 | 24 | 20.9 | 22.5 | 21.6 | | 75 |
| 80 | 24.2 | 22.1 | 19.9 | 32.2 | 23.5 | 20.5 | 32.1 | 23.9 | 20.7 | 28.2 | 23.7 | 20.6 | 24.8 | 23.2 | 20.6 | 21.6 | 20.7 | 19.7 | 80 |
| 85 | 22.7 | 21.3 | 19.7 | 30.4 | 22.8 | 20.2 | 30.5 | 23.1 | 20.4 | 26.9 | 23 | 20.3 | 23.7 | 22.5 | 20.2 | 20.6 | 20 | 19 | 85 |
| 90 | 21.4 | 20.5 | 19.4 | 28.8 | 22 | 19.9 | 29 | 22.4 | 20.1 | 25.7 | 22.3 | 20.1 | 22.7 | 21.7 | 20 | 19.7 | 19.2 | 18.3 | 90 |
| 95 | 20.2 | 19.7 | 19.1 | 27.2 | 21.4 | 19.6 | 27.3 | 21.8 | 19.8 | 24.5 | 21.7 | 19.8 | 21.7 | 20.9 | 19.7 | 18.9 | 18.5 | 17.7 | 95 |
| 100 | 19.1 | 18.8 | 18.8 | 25.8 | 20.8 | 19.4 | 25.4 | 21.2 | 19.6 | 23.3 | 21.2 | 19.6 | 20.8 | 20.2 | 19.3 | 18.1 | 17.8 | 17.1 | 100 |
| 105 | 18.1 | 17.8 | 17.9 | 24.5 | 20.2 | 19.2 | 23.3 | 20.6 | 19.4 | 22.3 | 20.6 | 19.4 | 19.9 | 19.4 | 18.7 | 17.2 | 17.1 | 16.5 | 105 |
| 110 | 17.1 | 16.9 | 17.1 | 22.6 | 19.7 | 19.1 | 21.3 | 20.1 | 19.2 | 21.2 | 20.1 | 19.3 | 19 | 18.7 | 18.1 | 16.5 | 16.4 | 16 | 110 |
| 115 | 16.2 | 16.1 | 16.3 | 20.8 | 19.3 | 19 | 19.9 | 19.7 | 19.1 | 19.6 | 19.5 | 19 | 18.2 | 18 | 17.5 | 15.7 | 15.8 | 15.5 | 115 |
| 120 | 15.4 | 15.3 | 15.5 | 19.1 | 18.8 | 18.9 | 18.9 | 19 | 19 | 18 | 18.9 | 18.6 | 17.5 | 17.3 | 16.9 | 15 | 15.1 | 14.9 | 120 |
| 125 | 14.6 | 14.6 | 14.8 | 17.5 | 18.4 | 18.9 | 17.7 | 17.9 | 18.7 | 16.4 | 17.8 | 18.1 | 16.7 | 16.6 | 16.4 | 14.4 | 14.4 | 14.4 | 125 |
| 130 | 13.9 | 13.9 | 14.1 | 16.1 | 17.2 | 18 | 16.3 | 17.1 | 17.2 | 15.7 | 16.4 | 17.3 | 15.5 | 15.9 | 15.8 | 13.7 | 13.8 | 13.8 | 130 |
| 135 | 13.2 | 13.3 | 13.5 | 14.8 | 15.8 | 16.5 | 15 | 16.1 | 16.5 | 14.9 | 15 | 16 | 14.2 | 15.3 | 15.2 | 13.1 | 13.2 | 13.3 | 135 |
| 140 | 12.5 | 12.6 | 12.9 | 13.8 | 14.5 | 15.1 | 13.8 | 14.8 | 15.6 | 14.2 | 14.3 | 14.6 | 13 | 14.2 | 14.7 | 12.4 | 12.6 | 12.7 | 140 |
| 145 | 12 | 12.1 | | 13.2 | 13.3 | 13.8 | 12.7 | 13.6 | 14.3 | 13.1 | 13.7 | 13.8 | 11.9 | 13 | 13.9 | 11.6 | 12.1 | 12.2 | 145 |
| 150 | 11.4 | 11.5 | | 12.7 | 12.7 | 12.9 | 12.1 | 12.5 | 13.1 | 12.1 | 13 | 13.2 | 10.8 | 11.9 | 12.8 | 10.6 | 11.5 | 11.7 | 150 |
| 155 | 11 | | | 12.2 | 12.2 | 12.4 | 11.5 | 11.7 | 11.9 | 11.1 | 12 | 12.5 | 9.9 | 10.9 | 11.7 | 9.7 | 10.7 | 11.2 | 155 |
| 160 | 9.9 | | | 11.7 | 11.8 | | 10.9 | 11.1 | 11.3 | 10.2 | 11 | 11.6 | 8.9 | 9.9 | 10.6 | 8.8 | 9.7 | 10.6 | 160 |
| 165 | | | | 11.3 | 11.4 | | 10.3 | 10.6 | 10.8 | 9.4 | 10.1 | 10.5 | 8.1 | 9 | 9.6 | 7.9 | 8.8 | 9.6 | 165 |
| 170 | | | | 10.8 | 11 | | 9.6 | 10 | 10.2 | 8.6 | 9.2 | 9.6 | 7.3 | 8.1 | 8.7 | 7.1 | 8 | 8.7 | 170 |
| 175 | | | | 5.4 | | | 8.9 | 9.3 | | 7.9 | 8.4 | 8.7 | 6.6 | 7.3 | 7.8 | 6.4 | 7.2 | 7.8 | 175 |
| 180 | | | | | | | 8.2 | 8.5 | | 7.2 | 7.7 | 7.9 | 5.9 | 6.6 | 7 | 5.7 | 6.4 | 7 | 180 |
| 185 | | | | | | | 7.6 | 7.8 | | 6.5 | 7 | | 5.3 | 5.8 | 6.2 | 5 | 5.7 | 6.2 | 185 |
| 190 | | | | | | | | | | 6 | 6.3 | | 4.7 | 5.2 | 5.4 | 4.4 | 5 | 5.5 | 190 |
| 195 | | | | | | | | | | 5.4 | | | 4.1 | 4.5 | 4.7 | 3.9 | 4.4 | 4.8 | 195 |
| 200 | | | | | | | | | | 4.9 | | | 3.6 | 3.9 | 4 | 3.3 | 3.8 | 4.1 | 200 |
| 205 | | | | | | | | | | | | | 3.1 | 3.4 | 3.3 | 2.8 | 3.2 | 3.4 | 205 |
| 210 | | | | | | | | | | | | | 2.6 | 2.8 | | 2.3 | 2.7 | 2.8 | 210 |
| 215 | | | | | | | | | | | | | 2.1 | | | 1.9 | 2.2 | | 215 |
| 220 | | | | | | | | | | | | | | | | 1.4 | | | 220 |

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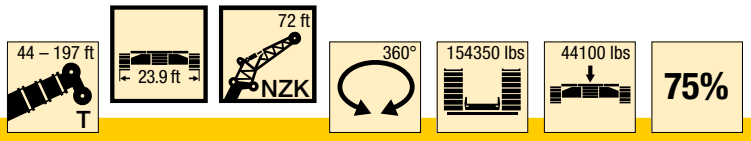
# Lifting capacities
# Forces de levage

**TNZK**




| ft | 44 ft | | | 58 ft | | | 72 ft | | | 86 ft | | | 100 ft | | | 114 ft | | | ft |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 72 ft | | | 72 ft | | | 72 ft | | | 72 ft | | | 72 ft | | | 72 ft | | | |
| | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | |
| 12 | 21.8 | | | | | | | | | | | | | | | | | | 12 |
| 13 | 22 | | | | | | | | | | | | | | | | | | 13 |
| 14 | 22.2 | | | | | | | | | | | | | | | | | | 14 |
| 15 | 22.2 | | | | | | | | | | | | | | | | | | 15 |
| 16 | 22.2 | | | 21.5 | | | | | | | | | | | | | | | 16 |
| 17 | 22.1 | | | 21.5 | | | | | | | | | | | | | | | 17 |
| 18 | 22.1 | | | 21.5 | | | | | | | | | | | | | | | 18 |
| 19 | 22 | | | 21.5 | | | 20.5 | | | | | | | | | | | | 19 |
| 20 | 21.9 | | | 21.4 | | | 20.5 | | | | | | | | | | | | 20 |
| 22 | 21.7 | | | 21.3 | | | 20.5 | | | 19.9 | | | | | | | | | 22 |
| 24 | 21.6 | | | 21.2 | | | 20.4 | | | 19.9 | | | | | | | | | 24 |
| 26 | 21.3 | | | 21 | | | 20.3 | | | 19.8 | | | 19 | | | | | | 26 |
| 28 | 21.1 | | | 20.8 | | | 20.2 | | | 19.7 | | | 18.9 | | | | | | 28 |
| 30 | 20.9 | | | 20.7 | | | 20 | | | 19.6 | | | 18.9 | | | 18.3 | | | 30 |
| 32 | 20.6 | | | 20.5 | | | 19.9 | | | 19.5 | | | 18.8 | | | 18.3 | | | 32 |
| 34 | 20.3 | | | 20.3 | | | 19.7 | | | 19.4 | | | 18.7 | | | 18.2 | | | 34 |
| 36 | 20 | | | 20 | | | 19.5 | | | 19.2 | | | 18.6 | | | 18.1 | | | 36 |
| 38 | 19.7 | | | 19.7 | | | 19.3 | | | 19.1 | | | 18.4 | | | 18 | | | 38 |
| 40 | 19.3 | 16.6 | | 19.5 | | | 19.1 | | | 18.9 | | | 18.3 | | | 17.9 | | | 40 |
| 45 | 18.4 | 15.7 | | 18.7 | 15.8 | | 18.5 | | | 18.4 | | | 17.9 | | | 17.5 | | | 45 |
| 50 | 17.5 | 14.9 | | 17.9 | 15.1 | | 17.9 | | | 17.8 | | | 17.4 | | | 17.2 | | | 50 |
| 55 | 16.5 | 14.1 | | 17.2 | 14.4 | | 17.3 | 14.4 | | 17.3 | 14.4 | | 17 | | | 16.8 | | | 55 |
| 60 | 15.6 | 13.3 | 11.3 | 16.4 | 13.7 | | 16.6 | 13.8 | | 16.8 | 13.9 | | 16.6 | 13.8 | | 16.4 | 13.8 | | 60 |
| 65 | 14.7 | 12.7 | 10.9 | 15.6 | 13.1 | 11 | 16 | 13.3 | 11 | 16.2 | 13.4 | | 16.1 | 13.4 | | 16 | 13.3 | | 65 |
| 70 | 13.9 | 12.1 | 10.5 | 14.8 | 12.5 | 10.7 | 15.3 | 12.7 | 10.7 | 15.7 | 12.9 | | 15.6 | 12.9 | | 15.6 | 13 | | 70 |
| 75 | 13.1 | 11.6 | 10.3 | 14.1 | 12 | 10.4 | 14.7 | 12.3 | 10.4 | 15.1 | 12.5 | 10.5 | 15.2 | 12.5 | 10.4 | 15.2 | 12.6 | | 75 |
| 80 | 12.4 | 11.1 | 10 | 13.4 | 11.6 | 10.1 | 14 | 11.9 | 10.2 | 14.6 | 12.1 | 10.2 | 14.7 | 12.2 | 10.2 | 14.8 | 12.2 | 10.2 | 80 |
| 85 | 11.6 | 10.7 | 9.8 | 12.7 | 11.2 | 9.9 | 13.4 | 11.5 | 10 | 14 | 11.7 | 10.1 | 14.2 | 11.8 | 10.1 | 14.4 | 11.9 | 10 | 85 |
| 90 | 10.8 | 10.3 | 9.7 | 12.1 | 10.8 | 9.8 | 12.8 | 11.1 | 9.8 | 13.4 | 11.4 | 9.9 | 13.7 | 11.5 | 9.9 | 14 | 11.6 | 9.9 | 90 |
| 95 | 10.1 | 10 | 9.7 | 11.5 | 10.4 | 9.7 | 12.3 | 10.8 | 9.7 | 12.9 | 11.1 | 9.8 | 13.3 | 11.2 | 9.8 | 13.6 | 11.3 | 9.8 | 95 |
| 100 | 9.4 | 9.8 | 9.7 | 10.9 | 10.2 | 9.7 | 11.8 | 10.5 | 9.6 | 12.5 | 10.8 | 9.7 | 12.8 | 10.9 | 9.7 | 13.1 | 11.1 | 9.7 | 100 |
| 105 | 8.9 | 9.7 | | 10.2 | 9.9 | 9.7 | 11.3 | 10.2 | 9.6 | 12 | 10.5 | 9.6 | 12.4 | 10.6 | 9.6 | 12.7 | 10.8 | 9.6 | 105 |
| 110 | | | | 9.6 | 9.8 | 9.7 | 10.8 | 10 | 9.6 | 11.6 | 10.3 | 9.6 | 12 | 10.4 | 9.5 | 12.4 | 10.6 | 9.5 | 110 |
| 115 | | | | 9.2 | 9.7 | | 10.2 | 9.8 | 9.6 | 11.1 | 10 | 9.6 | 11.6 | 10.2 | 9.5 | 12 | 10.4 | 9.5 | 115 |
| 120 | | | | 8.8 | 9.7 | | 9.7 | 9.7 | 9.6 | 10.7 | 9.9 | 9.6 | 11.2 | 10 | 9.5 | 11.6 | 10.2 | 9.4 | 120 |
| 125 | | | | | | | 9.3 | 9.6 | 9.6 | 10.3 | 9.7 | 9.6 | 10.9 | 9.9 | 9.5 | 11.3 | 10 | 9.4 | 125 |
| 130 | | | | | | | 9 | 9.6 | | 9.8 | 9.6 | 9.6 | 10.5 | 9.7 | 9.5 | 11 | 9.8 | 9.4 | 130 |
| 135 | | | | | | | 8.6 | 9.6 | | 9.4 | 9.6 | 9.6 | 10.1 | 9.6 | 9.5 | 10.7 | 9.7 | 9.4 | 135 |
| 140 | | | | | | | | | | 9.1 | 9.6 | 9.6 | 9.8 | 9.5 | 9.5 | 10.4 | 9.6 | 9.4 | 140 |
| 145 | | | | | | | | | | 8.8 | 9.6 | | 9.5 | 9.5 | 9.5 | 10.1 | 9.5 | 9.4 | 145 |
| 150 | | | | | | | | | | 8.6 | | | 9.2 | 9.5 | 9.5 | 9.8 | 9.5 | 9.4 | 150 |
| 155 | | | | | | | | | | | | | 8.9 | 9.2 | | 9.5 | 9.4 | 9.4 | 155 |
| 160 | | | | | | | | | | | | | 8.7 | 9.1 | | 9.2 | 9.4 | 9.4 | 160 |
| 165 | | | | | | | | | | | | | | | | 9 | 9.3 | 9.4 | 165 |
| 170 | | | | | | | | | | | | | | | | 8.8 | 9.2 | | 170 |
| 175 | | | | | | | | | | | | | | | | 8.6 | 9.1 | | 175 |

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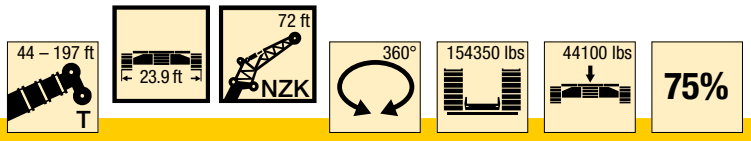
# Lifting capacities
# Forces de levage

**TNZK**




| ft | 128 ft | | | 142 ft | | | 156 ft | | | 171 ft | | | 185 ft | | | 197 ft | | | ft |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 72 ft | | | 72 ft | | | 72 ft | | | 72 ft | | | 72 ft | | | 72 ft | | | |
| | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | |
| 32 | 17.5 | | | 18.2 | | | | | | | | | | | | | | | 32 |
| 34 | 17.5 | | | 18.2 | | | | | | | | | | | | | | | 34 |
| 36 | 17.4 | | | 18.1 | | | | | | | | | | | | | | | 36 |
| 38 | 17.3 | | | 18 | | | | | | | | | | | | | | | 38 |
| 40 | 17.2 | | | 17.9 | | | 17.2 | | | | | | | | | | | | 40 |
| 45 | 16.9 | | | 17.6 | | | 16.9 | | | 15.8 | | | | | | | | | 45 |
| 50 | 16.6 | | | 17.3 | | | 16.7 | | | 15.6 | | | | | | | | | 50 |
| 55 | 16.3 | | | 17 | | | 16.4 | | | 15.4 | | | 14.1 | | | 13 | | | 55 |
| 60 | 16 | | | 16.7 | | | 16.2 | | | 15.2 | | | 13.9 | | | 12.8 | | | 60 |
| 65 | 15.7 | 13.2 | | 16.4 | 13.7 | | 15.9 | | | 14.9 | | | 13.8 | | | 12.7 | | | 65 |
| 70 | 15.3 | 12.8 | | 16 | 13.3 | | 15.6 | | | 14.7 | | | 13.6 | | | 12.5 | | | 70 |
| 75 | 15 | 12.5 | | 15.7 | 13 | | 15.3 | 12.8 | | 14.5 | 12.4 | | 13.4 | | | 12.4 | | | 75 |
| 80 | 14.6 | 12.2 | | 15.4 | 12.6 | | 15 | 12.5 | | 14.3 | 12.1 | | 13.2 | 11.5 | | 12.2 | | | 80 |
| 85 | 14.3 | 11.9 | 10 | 15 | 12.3 | 10.2 | 14.7 | 12.2 | 10.1 | 14 | 11.8 | | 13 | 11.3 | | 12 | 10.8 | | 85 |
| 90 | 13.9 | 11.6 | 9.9 | 14.7 | 12 | 10 | 14.4 | 12 | 10 | 13.7 | 11.6 | | 12.8 | 11.1 | | 11.9 | 10.6 | | 90 |
| 95 | 13.6 | 11.3 | 9.8 | 14.3 | 11.8 | 9.9 | 14.1 | 11.7 | 9.8 | 13.5 | 11.4 | 9.7 | 12.6 | 10.9 | | 11.7 | 10.5 | | 95 |
| 100 | 13.2 | 11.1 | 9.6 | 13.9 | 11.5 | 9.8 | 13.8 | 11.4 | 9.7 | 13.2 | 11.2 | 9.6 | 12.4 | 10.7 | 9.4 | 11.6 | 10.3 | | 100 |
| 105 | 12.8 | 10.8 | 9.6 | 13.6 | 11.3 | 9.7 | 13.4 | 11.2 | 9.6 | 12.9 | 11 | 9.5 | 12.2 | 10.6 | 9.3 | 11.4 | 10.2 | 9.2 | 105 |
| 110 | 12.4 | 10.6 | 9.5 | 13.2 | 11 | 9.6 | 13.1 | 11 | 9.5 | 12.7 | 10.8 | 9.4 | 12 | 10.4 | 9.3 | 11.2 | 10 | 9.1 | 110 |
| 115 | 12.1 | 10.4 | 9.4 | 12.8 | 10.8 | 9.5 | 12.8 | 10.8 | 9.5 | 12.4 | 10.6 | 9.4 | 11.7 | 10.2 | 9.2 | 11.1 | 9.9 | 9.1 | 115 |
| 120 | 11.8 | 10.2 | 9.4 | 12.5 | 10.6 | 9.4 | 12.5 | 10.6 | 9.4 | 12.1 | 10.4 | 9.3 | 11.5 | 10.1 | 9.2 | 10.9 | 9.8 | 9 | 120 |
| 125 | 11.5 | 10.1 | 9.4 | 12.2 | 10.4 | 9.4 | 12.2 | 10.4 | 9.3 | 11.9 | 10.3 | 9.3 | 11.3 | 10 | 9.1 | 10.8 | 9.7 | 9 | 125 |
| 130 | 11.2 | 9.9 | 9.4 | 11.9 | 10.2 | 9.4 | 11.9 | 10.2 | 9.3 | 11.7 | 10.1 | 9.2 | 11.1 | 9.8 | 9.1 | 10.6 | 9.5 | 9 | 130 |
| 135 | 10.9 | 9.8 | 9.4 | 11.6 | 10.1 | 9.3 | 11.7 | 10.1 | 9.3 | 11.4 | 10 | 9.2 | 11 | 9.7 | 9.1 | 10.4 | 9.4 | 8.9 | 135 |
| 140 | 10.6 | 9.7 | 9.4 | 11.3 | 9.9 | 9.3 | 11.4 | 9.9 | 9.2 | 11.2 | 9.8 | 9.2 | 10.8 | 9.6 | 9 | 10.2 | 9.3 | 8.9 | 140 |
| 145 | 10.3 | 9.6 | 9.4 | 11 | 9.8 | 9.3 | 11.1 | 9.8 | 9.2 | 11 | 9.7 | 9.2 | 10.6 | 9.5 | 9 | 9.9 | 9.3 | 8.9 | 145 |
| 150 | 9.9 | 9.5 | 9.4 | 10.8 | 9.6 | 9.3 | 10.9 | 9.7 | 9.2 | 10.8 | 9.6 | 9.2 | 10.4 | 9.4 | 9 | 9.6 | 9.2 | 8.9 | 150 |
| 155 | 9.5 | 9.4 | 9.4 | 10.5 | 9.5 | 9.3 | 10.7 | 9.6 | 9.2 | 10.6 | 9.5 | 9.2 | 10.2 | 9.3 | 9 | 9.3 | 9.1 | 8.9 | 155 |
| 160 | 9.2 | 9.2 | 9.4 | 10.3 | 9.5 | 9.3 | 10.4 | 9.5 | 9.2 | 10.4 | 9.4 | 9.2 | 10 | 9.3 | 9 | 8.9 | 8.9 | 8.9 | 160 |
| 165 | 8.9 | 9 | 9.2 | 10 | 9.4 | 9.3 | 10.2 | 9.4 | 9.2 | 10.2 | 9.3 | 9.2 | 9.9 | 9.2 | 9 | 8.6 | 8.8 | 8.8 | 165 |
| 170 | 8.5 | 8.7 | 8.9 | 9.8 | 9.4 | 9.3 | 10 | 9.3 | 9.2 | 10 | 9.3 | 9.2 | 9.7 | 9.1 | 9 | 8.4 | 8.6 | 8.7 | 170 |
| 175 | 8.2 | 8.4 | 8.6 | 9.6 | 9.3 | 9.3 | 9.8 | 9.3 | 9.2 | 9.8 | 9.2 | 9.2 | 9.4 | 9.1 | 9 | 8.1 | 8.3 | 8.6 | 175 |
| 180 | 8 | 8.1 | 8.5 | 9.4 | 9.3 | 9.3 | 9.7 | 9.2 | 9.2 | 9.6 | 9.2 | 9.2 | 9.1 | 9 | 9 | 7.8 | 8.1 | 8.4 | 180 |
| 185 | 7.7 | 7.9 | | 9.2 | 9.3 | 9.3 | 9.3 | 9.2 | 9.2 | 9.3 | 9.2 | 9.2 | 8.8 | 8.8 | 9 | 7.5 | 7.8 | 8.1 | 185 |
| 190 | 7.5 | | | 9 | 9.3 | 8.6 | 9 | 9.2 | 9.2 | 8.7 | 9.1 | 9.2 | 8.6 | 8.6 | 8.9 | 7.2 | 7.5 | 7.8 | 190 |
| 195 | | | | 8.8 | 9.3 | | 8.7 | 8.9 | 9.2 | 8.1 | 8.9 | 9.1 | 8.3 | 8.4 | 8.7 | 7 | 7.2 | 7.5 | 195 |
| 200 | | | | 7.8 | | | 8.4 | 8.6 | 7.6 | 7.7 | 8.3 | 8.6 | 7.7 | 8.2 | 8.5 | 6.7 | 7 | 7.2 | 200 |
| 205 | | | | 6.3 | | | 8.1 | 8.4 | 7.3 | 7.5 | 7.7 | 7.9 | 7.2 | 7.9 | 8.2 | 6.5 | 6.7 | 7 | 205 |
| 210 | | | | | | | 7.5 | 8 | | 7.3 | 7.5 | 7.6 | 6.7 | 7.5 | 7.8 | 6.2 | 6.5 | 6.7 | 210 |
| 215 | | | | | | | 6.5 | | | 7 | 7.2 | 7.4 | 6.2 | 6.9 | 7.1 | 5.9 | 6.2 | 6.4 | 215 |
| 220 | | | | | | | 3.3 | | | 6.8 | 7 | | 5.7 | 6.4 | 6.5 | 5.5 | 6 | 6.2 | 220 |
| 225 | | | | | | | | | | 6.2 | 6.7 | | 5.3 | 5.9 | 5.9 | 5 | 5.7 | 5.9 | 225 |
| 230 | | | | | | | | | | 4.3 | | | 4.8 | 5.4 | 5.2 | 4.5 | 5.2 | 5.4 | 230 |
| 235 | | | | | | | | | | | | | 4.4 | 4.9 | | 4.1 | 4.7 | 4.8 | 235 |
| 240 | | | | | | | | | | | | | 3.8 | | | 3.7 | 4.2 | | 240 |
| 245 | | | | | | | | | | | | | | | | 3.3 | 3.7 | | 245 |
| 250 | | | | | | | | | | | | | | | | 2.9 | 3.2 | | 250 |

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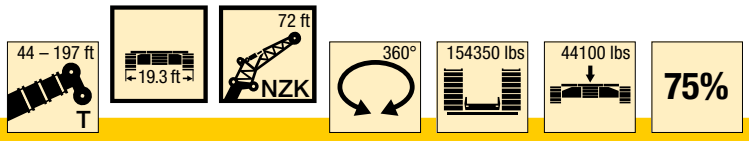
# Lifting capacities
# Forces de levage

## TNZK




| ft | 44 ft | | | 58 ft | | | 72 ft | | | 86 ft | | | 100 ft | | | 114 ft | | | ft |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 72 ft | | | 72 ft | | | 72 ft | | | 72 ft | | | 72 ft | | | 72 ft | | | |
| | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | |
| 12 | 21.8 | | | | | | | | | | | | | | | | | | 12 |
| 13 | 22 | | | | | | | | | | | | | | | | | | 13 |
| 14 | 22.2 | | | | | | | | | | | | | | | | | | 14 |
| 15 | 22.2 | | | | | | | | | | | | | | | | | | 15 |
| 16 | 22.2 | | | 21.5 | | | | | | | | | | | | | | | 16 |
| 17 | 22.1 | | | 21.5 | | | | | | | | | | | | | | | 17 |
| 18 | 22.1 | | | 21.5 | | | | | | | | | | | | | | | 18 |
| 19 | 22 | | | 21.5 | | | 20.5 | | | | | | | | | | | | 19 |
| 20 | 21.9 | | | 21.4 | | | 20.5 | | | | | | | | | | | | 20 |
| 22 | 21.7 | | | 21.3 | | | 20.5 | | | 19.9 | | | | | | | | | 22 |
| 24 | 21.6 | | | 21.2 | | | 20.4 | | | 19.9 | | | | | | | | | 24 |
| 26 | 21.3 | | | 21 | | | 20.3 | | | 19.8 | | | 19 | | | | | | 26 |
| 28 | 21.1 | | | 20.8 | | | 20.2 | | | 19.7 | | | 18.9 | | | | | | 28 |
| 30 | 20.9 | | | 20.7 | | | 20 | | | 19.6 | | | 18.9 | | | 18.3 | | | 30 |
| 32 | 20.6 | | | 20.5 | | | 19.9 | | | 19.5 | | | 18.8 | | | 18.3 | | | 32 |
| 34 | 20.3 | | | 20.3 | | | 19.7 | | | 19.4 | | | 18.7 | | | 18.2 | | | 34 |
| 36 | 20 | | | 20 | | | 19.5 | | | 19.2 | | | 18.6 | | | 18.1 | | | 36 |
| 38 | 19.7 | | | 19.7 | | | 19.3 | | | 19.1 | | | 18.4 | | | 18 | | | 38 |
| 40 | 19.3 | 16.6 | | 19.5 | | | 19.1 | | | 18.9 | | | 18.3 | | | 17.9 | | | 40 |
| 45 | 18.4 | 15.7 | | 18.7 | 15.8 | | 18.5 | | | 18.4 | | | 17.9 | | | 17.5 | | | 45 |
| 50 | 17.5 | 14.9 | | 17.9 | 15.1 | | 17.9 | | | 17.8 | | | 17.4 | | | 17.2 | | | 50 |
| 55 | 16.5 | 14.1 | | 17.2 | 14.4 | | 17.3 | 14.4 | | 17.3 | 14.4 | | 17 | | | 16.8 | | | 55 |
| 60 | 15.6 | 13.3 | 11.3 | 16.4 | 13.7 | | 16.6 | 13.8 | | 16.8 | 13.9 | | 16.6 | 13.8 | | 16.4 | 13.8 | | 60 |
| 65 | 14.7 | 12.7 | 10.9 | 15.6 | 13.1 | 11 | 16 | 13.3 | 11 | 16.2 | 13.4 | | 16.1 | 13.4 | | 16 | 13.3 | | 65 |
| 70 | 13.9 | 12.1 | 10.5 | 14.8 | 12.5 | 10.7 | 15.3 | 12.7 | 10.7 | 15.7 | 12.9 | | 15.6 | 12.9 | | 15.6 | 13 | | 70 |
| 75 | 13.1 | 11.6 | 10.3 | 14.1 | 12 | 10.4 | 14.7 | 12.3 | 10.4 | 15.1 | 12.5 | 10.5 | 15.2 | 12.5 | 10.4 | 15.2 | 12.6 | | 75 |
| 80 | 12.4 | 11.1 | 10 | 13.4 | 11.6 | 10.1 | 14 | 11.9 | 10.2 | 14.6 | 12.1 | 10.2 | 14.7 | 12.2 | 10.2 | 14.8 | 12.2 | 10.2 | 80 |
| 85 | 11.6 | 10.7 | 9.8 | 12.7 | 11.2 | 9.9 | 13.4 | 11.5 | 10 | 14 | 11.7 | 10.1 | 14.2 | 11.8 | 10.1 | 14.4 | 11.9 | 10 | 85 |
| 90 | 10.8 | 10.3 | 9.7 | 12.1 | 10.8 | 9.8 | 12.8 | 11.1 | 9.8 | 13.4 | 11.4 | 9.9 | 13.7 | 11.5 | 9.9 | 14 | 11.6 | 9.9 | 90 |
| 95 | 10.1 | 10 | 9.7 | 11.5 | 10.4 | 9.7 | 12.3 | 10.8 | 9.7 | 12.9 | 11.1 | 9.8 | 13.3 | 11.2 | 9.8 | 13.6 | 11.3 | 9.8 | 95 |
| 100 | 9.4 | 9.8 | 9.7 | 10.9 | 10.2 | 9.7 | 11.8 | 10.5 | 9.6 | 12.5 | 10.8 | 9.7 | 12.8 | 10.9 | 9.7 | 13.1 | 11.1 | 9.7 | 100 |
| 105 | 8.9 | 9.7 | | 10.2 | 9.9 | 9.7 | 11.3 | 10.2 | 9.6 | 12 | 10.5 | 9.6 | 12.4 | 10.6 | 9.6 | 12.7 | 10.8 | 9.6 | 105 |
| 110 | | | | 9.6 | 9.8 | 9.7 | 10.8 | 10 | 9.6 | 11.6 | 10.3 | 9.6 | 12 | 10.4 | 9.5 | 12.4 | 10.6 | 9.5 | 110 |
| 115 | | | | 9.2 | 9.7 | | 10.2 | 9.8 | 9.6 | 11.1 | 10 | 9.6 | 11.6 | 10.2 | 9.5 | 12 | 10.4 | 9.5 | 115 |
| 120 | | | | 8.8 | 9.7 | | 9.7 | 9.7 | 9.6 | 10.7 | 9.9 | 9.6 | 11.2 | 10 | 9.5 | 11.6 | 10.2 | 9.4 | 120 |
| 125 | | | | | | | 9.3 | 9.6 | 9.6 | 10.3 | 9.7 | 9.6 | 10.9 | 9.9 | 9.5 | 11.3 | 10 | 9.4 | 125 |
| 130 | | | | | | | 9 | 9.6 | | 9.8 | 9.6 | 9.6 | 10.5 | 9.7 | 9.5 | 11 | 9.8 | 9.4 | 130 |
| 135 | | | | | | | 8.6 | 9.6 | | 9.4 | 9.6 | 9.6 | 10.1 | 9.6 | 9.5 | 10.7 | 9.7 | 9.4 | 135 |
| 140 | | | | | | | | | | 9.1 | 9.6 | 9.6 | 9.8 | 9.5 | 9.5 | 10.4 | 9.6 | 9.4 | 140 |
| 145 | | | | | | | | | | 8.8 | 9.6 | | 9.5 | 9.5 | 9.5 | 10.1 | 9.5 | 9.4 | 145 |
| 150 | | | | | | | | | | 8.6 | | | 9.2 | 9.5 | 9.5 | 9.8 | 9.5 | 9.4 | 150 |
| 155 | | | | | | | | | | | | | 8.9 | 9.2 | | 9.5 | 9.4 | 9.4 | 155 |
| 160 | | | | | | | | | | | | | 8.7 | 9.1 | | 9.2 | 9.4 | 9.4 | 160 |
| 165 | | | | | | | | | | | | | | | | 9 | 9.3 | 9.4 | 165 |
| 170 | | | | | | | | | | | | | | | | 8.8 | 9.2 | | 170 |
| 175 | | | | | | | | | | | | | | | | 8.6 | 9.1 | | 175 |

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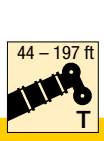
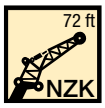
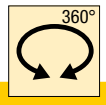
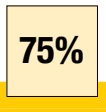
# Lifting capacities
# Forces de levage

**TNZK**










| ft | 128 ft | | | 142 ft | | | 156 ft | | | 171 ft | | | 185 ft | | | 197 ft | | | ft |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 72 ft | | | 72 ft | | | 72 ft | | | 72 ft | | | 72 ft | | | 72 ft | | | |
| | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | 0° | 22.5° | 45° | |
| 32 | 17.5 | | | 18.2 | | | | | | | | | | | | | | | 32 |
| 34 | 17.5 | | | 18.2 | | | | | | | | | | | | | | | 34 |
| 36 | 17.4 | | | 18.1 | | | | | | | | | | | | | | | 36 |
| 38 | 17.3 | | | 18 | | | | | | | | | | | | | | | 38 |
| 40 | 17.2 | | | 17.9 | | | 17.2 | | | | | | | | | | | | 40 |
| 45 | 16.9 | | | 17.6 | | | 16.9 | | | 15.8 | | | | | | | | | 45 |
| 50 | 16.6 | | | 17.3 | | | 16.7 | | | 15.6 | | | | | | | | | 50 |
| 55 | 16.3 | | | 17 | | | 16.4 | | | 15.4 | | | 14.1 | | | 13 | | | 55 |
| 60 | 16 | | | 16.7 | | | 16.2 | | | 15.2 | | | 13.9 | | | 12.8 | | | 60 |
| 65 | 15.7 | 13.2 | | 16.4 | 13.7 | | 15.9 | | | 14.9 | | | 13.8 | | | 12.7 | | | 65 |
| 70 | 15.3 | 12.8 | | 16 | 13.3 | | 15.6 | | | 14.7 | | | 13.6 | | | 12.5 | | | 70 |
| 75 | 15 | 12.5 | | 15.7 | 13 | | 15.3 | 12.8 | | 14.5 | 12.4 | | 13.4 | | | 12.4 | | | 75 |
| 80 | 14.6 | 12.2 | | 15.4 | 12.6 | | 15 | 12.5 | | 14.3 | 12.1 | | 13.2 | 11.5 | | 12.2 | | | 80 |
| 85 | 14.3 | 11.9 | 10 | 15 | 12.3 | 10.2 | 14.7 | 12.2 | 10.1 | 14 | 11.8 | | 13 | 11.3 | | 12 | 10.8 | | 85 |
| 90 | 13.9 | 11.6 | 9.9 | 14.7 | 12 | 10 | 14.4 | 12 | 10 | 13.7 | 11.6 | | 12.8 | 11.1 | | 11.9 | 10.6 | | 90 |
| 95 | 13.6 | 11.3 | 9.8 | 14.3 | 11.8 | 9.9 | 14.1 | 11.7 | 9.8 | 13.5 | 11.4 | 9.7 | 12.6 | 10.9 | | 11.7 | 10.5 | | 95 |
| 100 | 13.2 | 11.1 | 9.6 | 13.9 | 11.5 | 9.8 | 13.8 | 11.4 | 9.7 | 13.2 | 11.2 | 9.6 | 12.4 | 10.7 | 9.4 | 11.6 | 10.3 | | 100 |
| 105 | 12.8 | 10.8 | 9.6 | 13.6 | 11.3 | 9.7 | 13.4 | 11.2 | 9.6 | 12.9 | 11 | 9.5 | 12.2 | 10.6 | 9.3 | 11.4 | 10.2 | 9.2 | 105 |
| 110 | 12.4 | 10.6 | 9.5 | 13.2 | 11 | 9.6 | 13.1 | 11 | 9.5 | 12.7 | 10.8 | 9.4 | 12 | 10.4 | 9.3 | 11.2 | 10 | 9.1 | 110 |
| 115 | 12.1 | 10.4 | 9.4 | 12.8 | 10.8 | 9.5 | 12.8 | 10.8 | 9.5 | 12.4 | 10.6 | 9.4 | 11.7 | 10.2 | 9.2 | 11.1 | 9.9 | 9.1 | 115 |
| 120 | 11.8 | 10.2 | 9.4 | 12.5 | 10.6 | 9.4 | 12.5 | 10.6 | 9.4 | 12.1 | 10.4 | 9.3 | 11.5 | 10.1 | 9.2 | 10.9 | 9.8 | 9 | 120 |
| 125 | 11.5 | 10.1 | 9.4 | 12.2 | 10.4 | 9.4 | 12.2 | 10.4 | 9.3 | 11.9 | 10.3 | 9.3 | 11.3 | 10 | 9.1 | 10.8 | 9.7 | 9 | 125 |
| 130 | 11.2 | 9.9 | 9.4 | 11.9 | 10.2 | 9.4 | 11.9 | 10.2 | 9.3 | 11.7 | 10.1 | 9.2 | 11.1 | 9.8 | 9.1 | 10.6 | 9.5 | 9 | 130 |
| 135 | 10.9 | 9.8 | 9.4 | 11.6 | 10.1 | 9.3 | 11.7 | 10.1 | 9.3 | 11.4 | 10 | 9.2 | 11 | 9.7 | 9.1 | 10.4 | 9.4 | 8.9 | 135 |
| 140 | 10.6 | 9.7 | 9.4 | 11.3 | 9.9 | 9.3 | 11.4 | 9.9 | 9.2 | 11.2 | 9.8 | 9.2 | 10.8 | 9.6 | 9 | 10.2 | 9.3 | 8.9 | 140 |
| 145 | 10.3 | 9.6 | 9.4 | 11 | 9.8 | 9.3 | 11.1 | 9.8 | 9.2 | 11 | 9.7 | 9.2 | 10.6 | 9.5 | 9 | 9.9 | 9.3 | 8.9 | 145 |
| 150 | 9.9 | 9.5 | 9.4 | 10.8 | 9.6 | 9.3 | 10.9 | 9.7 | 9.2 | 10.8 | 9.6 | 9.2 | 10.4 | 9.4 | 9 | 9.6 | 9.2 | 8.9 | 150 |
| 155 | 9.5 | 9.4 | 9.4 | 10.5 | 9.5 | 9.3 | 10.5 | 9.6 | 9.2 | 10.5 | 9.5 | 9.2 | 10.2 | 9.3 | 9 | 9.3 | 9.1 | 8.9 | 155 |
| 160 | 9.2 | 9.2 | 9.4 | 10.3 | 9.5 | 9.3 | 10.3 | 9.5 | 9.2 | 10 | 9.4 | 9.2 | 9.9 | 9.3 | 9 | 8.9 | 8.9 | 8.9 | 160 |
| 165 | 8.9 | 9 | 9.2 | 10 | 9.4 | 9.3 | 10 | 9.4 | 9.2 | 9.8 | 9.3 | 9.2 | 9.3 | 9.2 | 9 | 8.6 | 8.8 | 8.8 | 165 |
| 170 | 8.5 | 8.7 | 8.9 | 9.5 | 9.4 | 9.3 | 9.5 | 9.3 | 9.2 | 9.5 | 9.3 | 9.2 | 8.5 | 9.1 | 9 | 8.1 | 8.6 | 8.7 | 170 |
| 175 | 8.2 | 8.4 | 8.6 | 8.8 | 9.3 | 9.3 | 8.7 | 9.3 | 9.2 | 9 | 9.1 | 9.1 | 7.8 | 9.1 | 9 | 7.5 | 8.3 | 8.6 | 175 |
| 180 | 8 | 8.1 | 8.5 | 8.6 | 9 | 9.2 | 8.4 | 9 | 9.2 | 8.3 | 9 | 9.1 | 7.1 | 8.5 | 9 | 6.8 | 8.1 | 8.4 | 180 |
| 185 | 7.7 | 7.9 | | 8.3 | 8.4 | 8.7 | 8.1 | 8.4 | 8.8 | 7.6 | 8.7 | 9.1 | 6.4 | 7.8 | 8.6 | 6.1 | 7.6 | 8.1 | 185 |
| 190 | 7.5 | | | 8.1 | 8.2 | 8.6 | 7.8 | 8 | 8.2 | 7 | 8 | 8.6 | 5.7 | 7 | 7.8 | 5.5 | 6.9 | 7.6 | 190 |
| 195 | | | | 7.8 | 7.9 | | 7.4 | 7.7 | 7.9 | 6.4 | 7.4 | 7.8 | 5.2 | 6.4 | 7 | 4.9 | 6.2 | 7 | 195 |
| 200 | | | | 7.6 | | | 6.8 | 7.4 | 7.5 | 5.8 | 6.7 | 7 | 4.6 | 5.7 | 6.2 | 4.3 | 5.6 | 6.2 | 200 |
| 205 | | | | 6.3 | | | 6.3 | 6.8 | 6.7 | 5.3 | 6.1 | 6.3 | 4.1 | 5.1 | 5.5 | 3.8 | 4.9 | 5.5 | 205 |
| 210 | | | | | | | 5.8 | 6.2 | | 4.8 | 5.5 | 5.6 | 3.6 | 4.5 | 4.9 | 3.3 | 4.3 | 4.9 | 210 |
| 215 | | | | | | | 5.3 | | | 4.3 | 4.9 | 4.9 | 3.1 | 3.9 | 4.2 | 2.8 | 3.8 | 4.2 | 215 |
| 220 | | | | | | | 3.3 | | | 3.9 | 4.4 | | 2.6 | 3.4 | 3.5 | 2.3 | 3.3 | 3.6 | 220 |
| 225 | | | | | | | | | | 3.5 | 3.8 | | 2.2 | 2.9 | 2.9 | 1.9 | 2.8 | 3 | 225 |
| 230 | | | | | | | | | | 3.1 | | | 1.8 | 2.4 | 2.2 | 1.4 | 2.3 | 2.4 | 230 |
| 235 | | | | | | | | | | | | | 1.4 | 1.9 | | | 1.8 | 1.8 | 235 |

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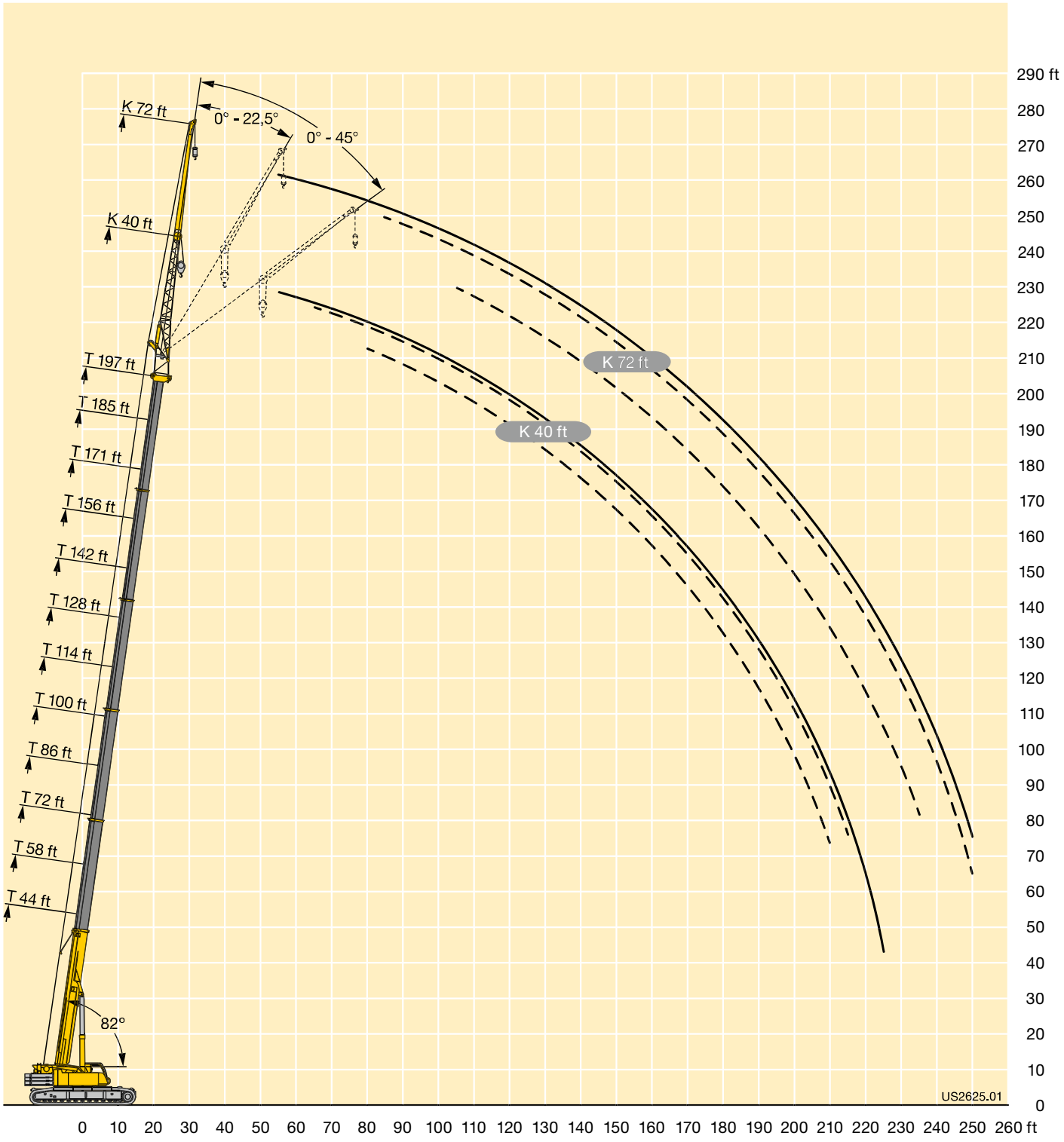
# Lifting heights
# Hauteurs de levage

**TNZK**







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# Technical description
# Description téchniques

## Crawler travel gear

| | |
|---|---|
| **Frame** | Low torsion box construction, consisting of crawler center section, two traverse beams and two crawler carriers. The crawler carriers can be removed from the telescoping traverse beams. Hydraulic track width adjustment. |
| **Tracks** | Maintenance free crawler chassis with 3'3" wide flat crawler 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 – 1.55 mph. |
| **Central ballast** | 44100 lbs, placement blocks at 22050 lbs each, mounting on crawler center section. |

## Crane superstructure

| | |
|---|---|
| **Frame** | Liebherr-manufactured, torsionally rigid steel construction made from high-tensile fine-grain steel. Triple-roller slewing rim. |
| **Crane engine** | Diesel, 4 cylinder, watercooled, make Liebherr, output 230 kW (312 h.p.), max. torque 1062 lbs-ft. Exhaust emissions acc. to (EU) 2016/1628, EPA/CARB or ECE-R.96. Fuel tank capacity: 185 gallons. |
| **Crane drive** | Diesel-hydraulic, with 5 axial piston variable displacement pumps, with servo-control and capacity control, 1 double gear pump. Compact hydraulic drive flanged to the Diesel engine. Drive assembly completely enclosed for noise abatment. |
| **Control** | Electronic control by the LICCON computer system (PLC control), two self-centering control levers (joy-sticks). Infinitely variable crane motions through displacement control of the hydraulic pump. Additional working speed control by variation of the Diesel engine. |
| **Hoist gear** | Axial piston variable displacement motor, Liebherr hoist drum with integrated planetary gear and spring-loaded static brake. Actuation by closed regulated oil circuit. |
| **Luffing gear** | 1 differential ram with nonreturn valve. |
| **Slewing gear** | Axial piston fixed displacement motor, planetary gear, spring-loaded static brake. |
| **Crane cab** | Large screen area, compound glass, comfort furnishing, cabin tiltable 20° to rear. |
| **Safety devices** | LICCON2 safe load indicator, test system, hoist limit switches, safety valves against rupture of pipes and hoses. |
| **Telescopic boom** | 1 base section and 5 telescopic sections. All telescopic sections extendable individually by means of the rapid-cycle telescoping system Telematik.<br>Boom length 44 ft to 197 ft. |
| **Counterweight** | 110250 lbs |
| **Electrical system** | Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each. |

## Additional equipment

| | |
|---|---|
| **Swing-away jib K/NZK** | 40 ft – 72 ft long, mountable to the telescopic boom at 0°, 22.5° or 45°. Hydraulic ram for operating the swing-away jib from 0° – 45° (option). |
| **Telescopic boom extension V** | 23 ft long lattice section, thus 23 ft higher pining point for swing-away jib. |
| **Intermediate sections** | 2 intermediate sections of 23 ft each for the extension of the biparted swing-away jib to 95 ft or 118 ft. |
| **Erection jib HK** | 11 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 additional counterweight slabs of 22050 lbs each for a total counterweight of 154350 lbs. |

**Other items of equipment available on request.**



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# Description of symbols
# Explication des symboles

## General symbols
## Symboles généraux

| | | | |
|---|---|---|---|
| | Radius<br>Portée | | Width crawler chassis<br>Largeur du train de chenilles |
| | Boom length<br>Longueur de la flèche | | Total weight<br>Poids total |
| | Boom position<br>Position de la flèche | | Hookblock / Capacity<br>Moufle à crochet / Capacité de charge |
| | Ground pressure<br>Pression au sol | | Hoist gear<br>Treuil de levage |
| | Slewing gear / Working area<br>Mécanisme d'orientation / Plage de travail | | Crane superstructure<br>Partie tournante de la grue |
| | Driving speed<br>Vitesse de translation | | Standard<br>Norme |
| | Counterweight<br>Contrepoids | | Gradability<br>Aptitude à gravir les pentes |
| | Central ballast<br>Contrepoids central | | Driving force<br>Puissance propulsive |

## Crane specific symbols
## Symboles spécifiques à la grue

| | | | |
|---|---|---|---|
| | Telescopic boom<br>Flèche télescopique | | Telescopic boom extension<br>Rallonge fleche telescopique |
| | Hydraulic swing away jib<br>Fléchette pliante hydraulique | | Erection jib<br>Flechette de montage |




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## Remarks referring to load charts

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, 20.1 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 kips.
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 centreline.
7. The stated lengths of the telescopic boom are maximum values and may deviate slightly.
8. The lifting capacities given for the telescopic boom only apply if the folding jib is taken off.
9. Subject to modification of lifting capacities.
10. Lifting capacities above 295400 lbs/332900 lbs only with additional pulley block/special equipment.
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.



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