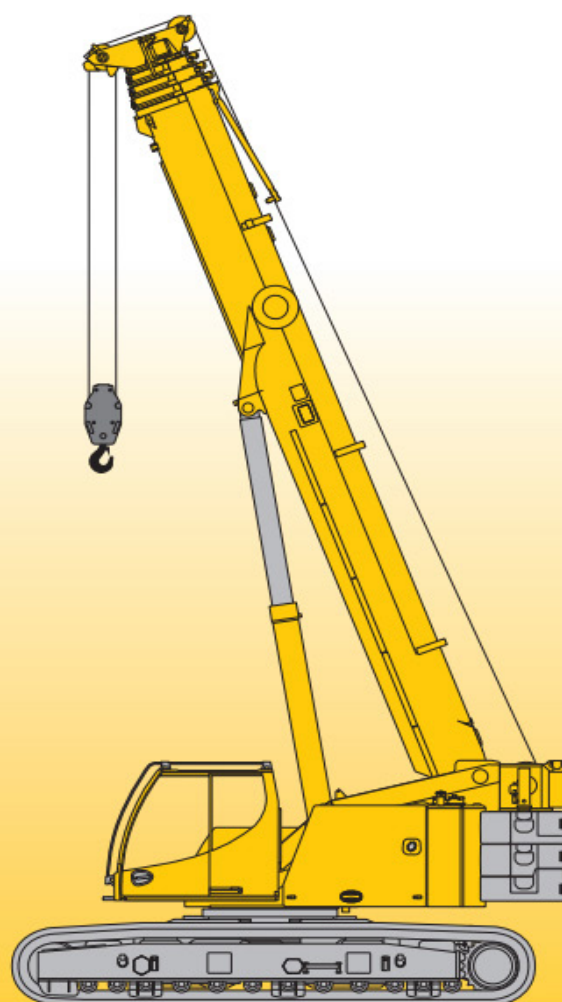




# **Telescopic Crawler Crane Grue télescopique sur chenilles**

## **LTR 1060**

**Technical Data  
Caractéristiques techniques**



# **LIEBHERR**



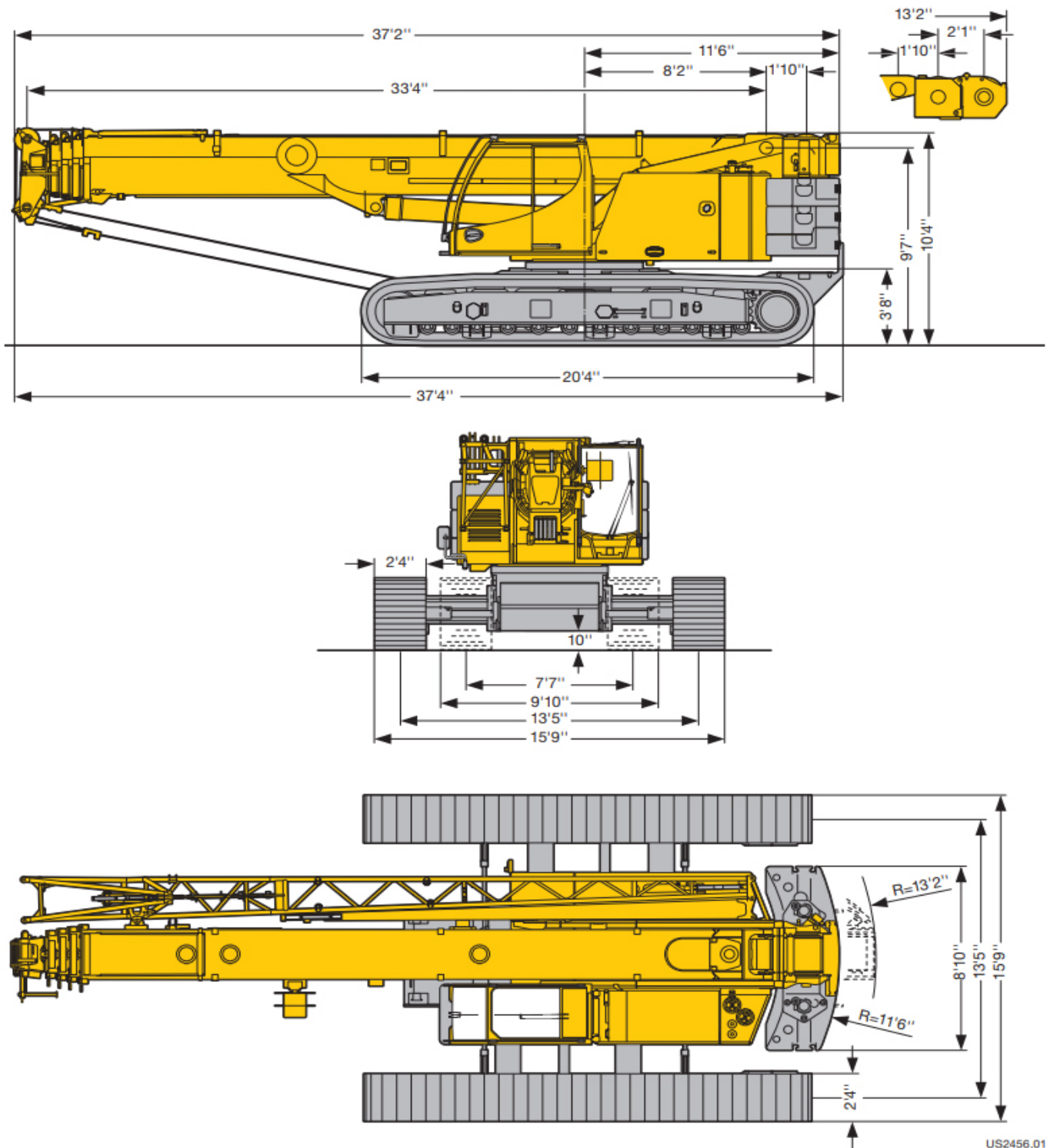
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**Caractéristiques techniques**

|                                              |         |
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## Dimensions Encombrement







## Crane data Dates de la grue

|                                                                                   |                                                                                                                                                                                                      |                             |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
|  | Total driving force<br>Puissance propulsive totale                                                                                                                                                   | 92200 lbs                   |
|  | Total weight with 34400 lbs counterweight, 22050 lbs central ballast and 3-sheave hook block<br>Poids total avec contrepoids de 34400 lbs, lest central de 22050 lbs et moufle à crochet à 3 poulies | 138000 lbs                  |
|  | Average ground pressure at 138000 lbs total weight and with 2'4" track pads<br>Pression au sol moyenne pour un poids total de 138000 lbs et des rails de 2'4"                                        | 11.95 lbs/inch <sup>2</sup> |
|  | Travel speeds<br>Vitesses de translation                                                                                                                                                             | 0 – 1.9 mph                 |
|  | Max. permissible gradability<br>Pente admissible maxi.                                                                                                                                               | 46 %                        |



| Drive<br>Mécanismes                                                                 | infinitely variable<br>en continu                                                                      | Rope diameter / length<br>Diamètre / Longueur du câble | Max. single line pull<br>Effort au brin maxi. |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------|
|  | 0 – 364 ft/min single line<br>ft/min au brin simple                                                    | 0.59" / 722 ft                                         | 10100 lbs                                     |
|  | 0 – 364 ft/min single line<br>ft/min au brin simple                                                    | 0.59" / 722 ft                                         | 10100 lbs                                     |
|  | 0 – 1.7 rpm                                                                                            |                                                        |                                               |
|  | approx. 55 seconds to reach 84° boom angle<br>env. 55 s jusqu'à 84°                                    |                                                        |                                               |
|  | approx. 240 seconds for boom extension from 33 ft – 131 ft<br>env. 240 s pour passer de 33 ft – 131 ft |                                                        |                                               |



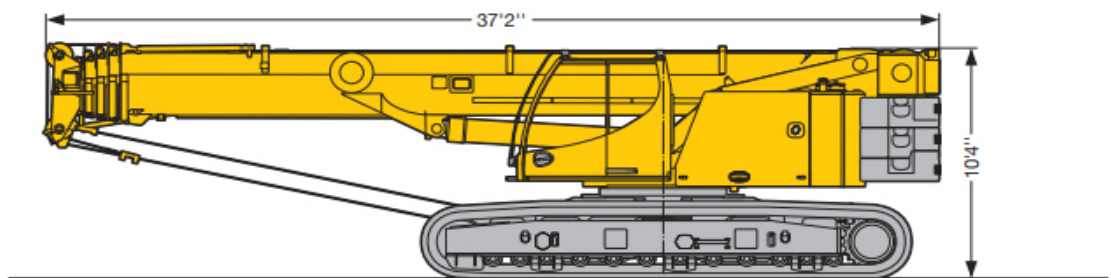
| Load kips<br>Forces de levage kips | No. of sheaves<br>Poulies - Pulegge | No. of lines<br>Brins | Weight lbs<br>Poids lbs |
|------------------------------------|-------------------------------------|-----------------------|-------------------------|
| 132.3                              | 7                                   | 14                    | 882                     |
| 101.6                              | 5                                   | 11                    | 882                     |
| 66.5                               | 3                                   | 7                     | 572                     |
| 29.5                               | 1                                   | 3                     | 396                     |
| 9.9                                | –                                   | 1                     | 165                     |



## Transportation plan Plan de transport

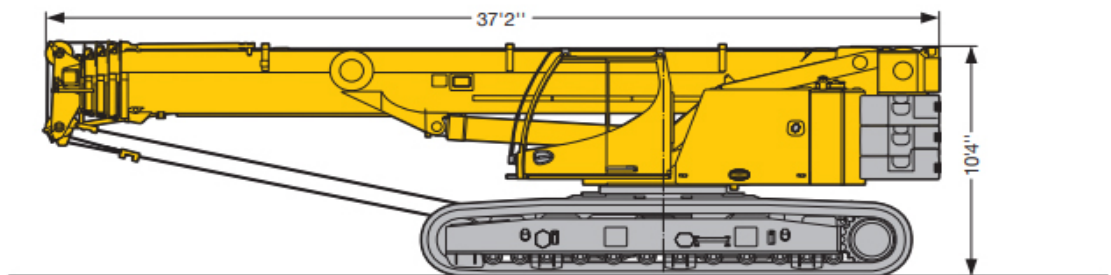
With slewing platform counterweight and centre counterweight - Avec contrepoids de la partie tournante et contrepoids central  
Width - Largeur 9'10"

**138000 lbs**



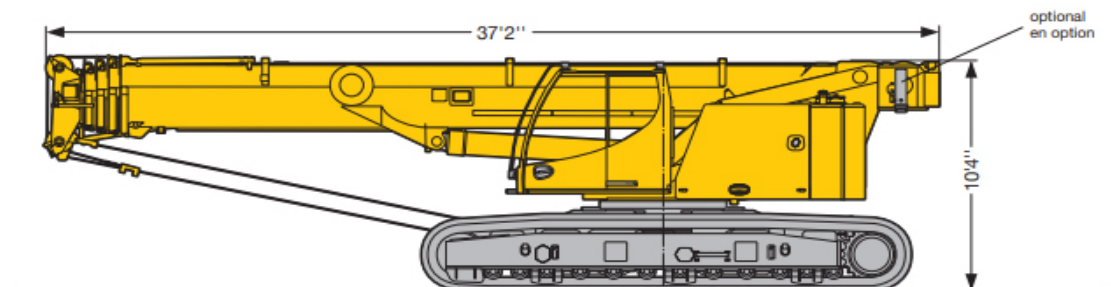
With slewing platform counterweight and without centre counterweight - Avec contrepoids de la partie tournante sans contrepoids central  
Width - Largeur 9'10"

**115740 lbs**



Without slewing platform counterweight and without centre counterweight - Sans contrepoids de la partie tournante et sans contrepoids central  
Width - Largeur 9'10"

**82675 lbs**



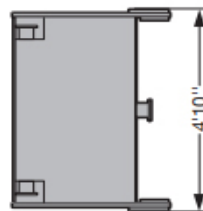
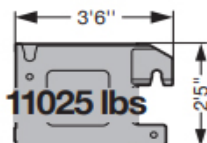
US2399.01

## Transportation plan Plan de transport

Counterweight versions  
Variantes de contrepoids

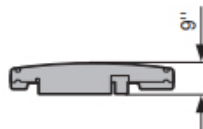
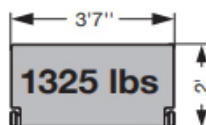
Center counterweight  
Contrepoids de base

(2 x)

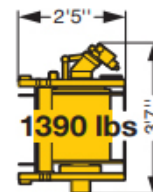


Part A / Partie A  
Replacement ballast for winch 2  
Contrepoids de remplacement  
pour le treuil 2

(1 x)

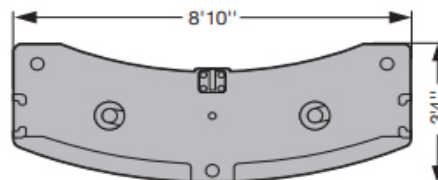
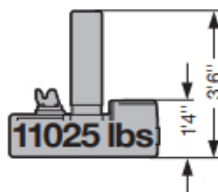


Winch 2 incl. rope  
Treuil 2 incl. câble



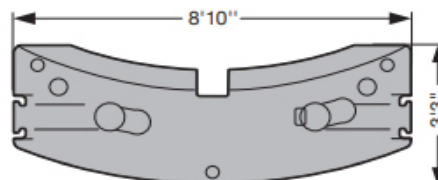
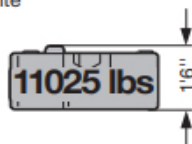
Part B / Partie B  
Counterweight slabs  
Contrepoids de la partie tournante

(1 x)



Part C / Partie C  
Counterweight slabs  
Contrepoids de la partie tournante

(2 x)



US2408

|            | Part A / Partie A<br>à 1325 lbs | Part B / Partie B<br>à 11025 lbs | Part C / Partie C<br>à 11025 lbs |
|------------|---------------------------------|----------------------------------|----------------------------------|
| 12350 lbs* | 1 x                             | 1 x                              | -                                |
| 23375 lbs  | 1 x                             | 1 x                              | 1 x                              |
| 34400 lbs  | 1 x                             | 1 x                              | 2 x                              |

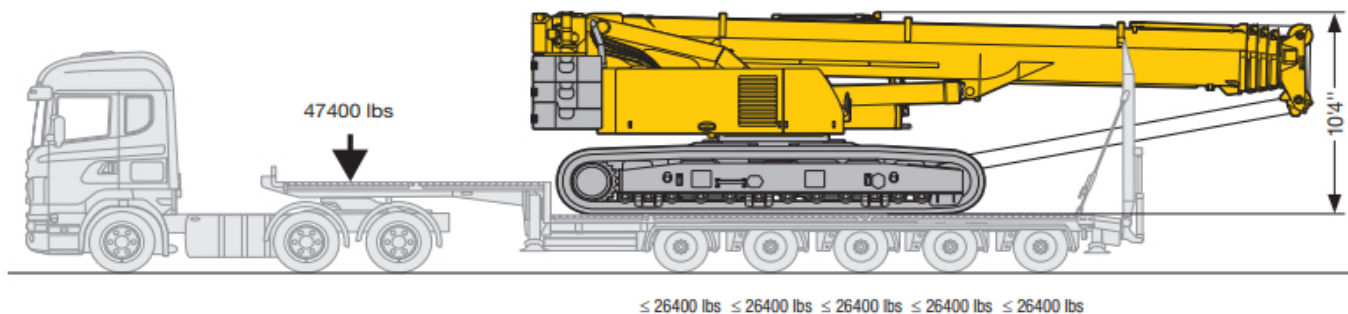
\* standard - standard



## Examples for transportation Exemples de transport

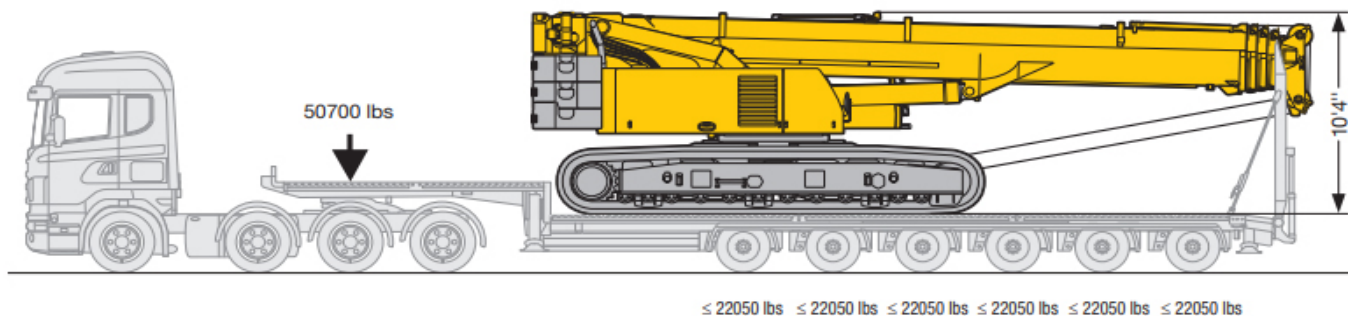
### Example A · Exemple A:

Total weight · Poids total: 138000 lbs  
Width · Largeur: 9'10"



### Example B · Exemple B:

Total weight · Poids total: 138000 lbs  
Width · Largeur: 9'10"



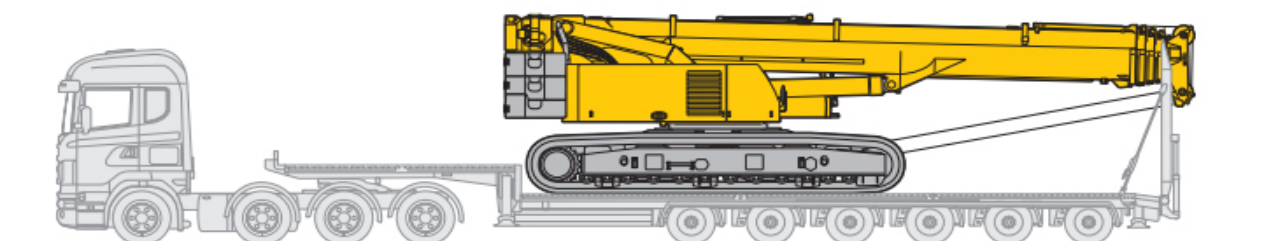
US2402



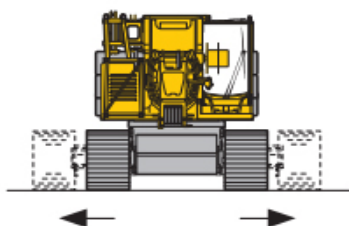
## Transportation plan Plan de transport

Total weight - Poids total: 138000 lbs  
Width - Largeur: 9'10"

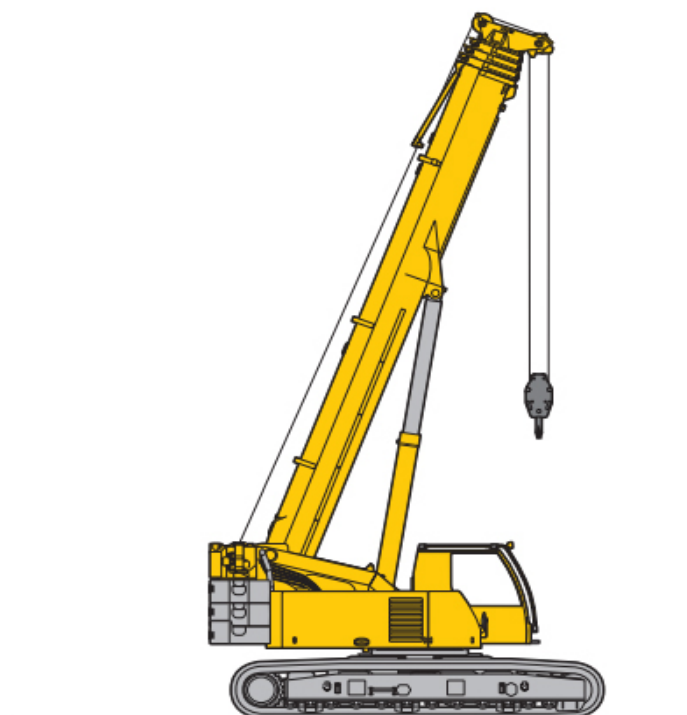
1



2



3

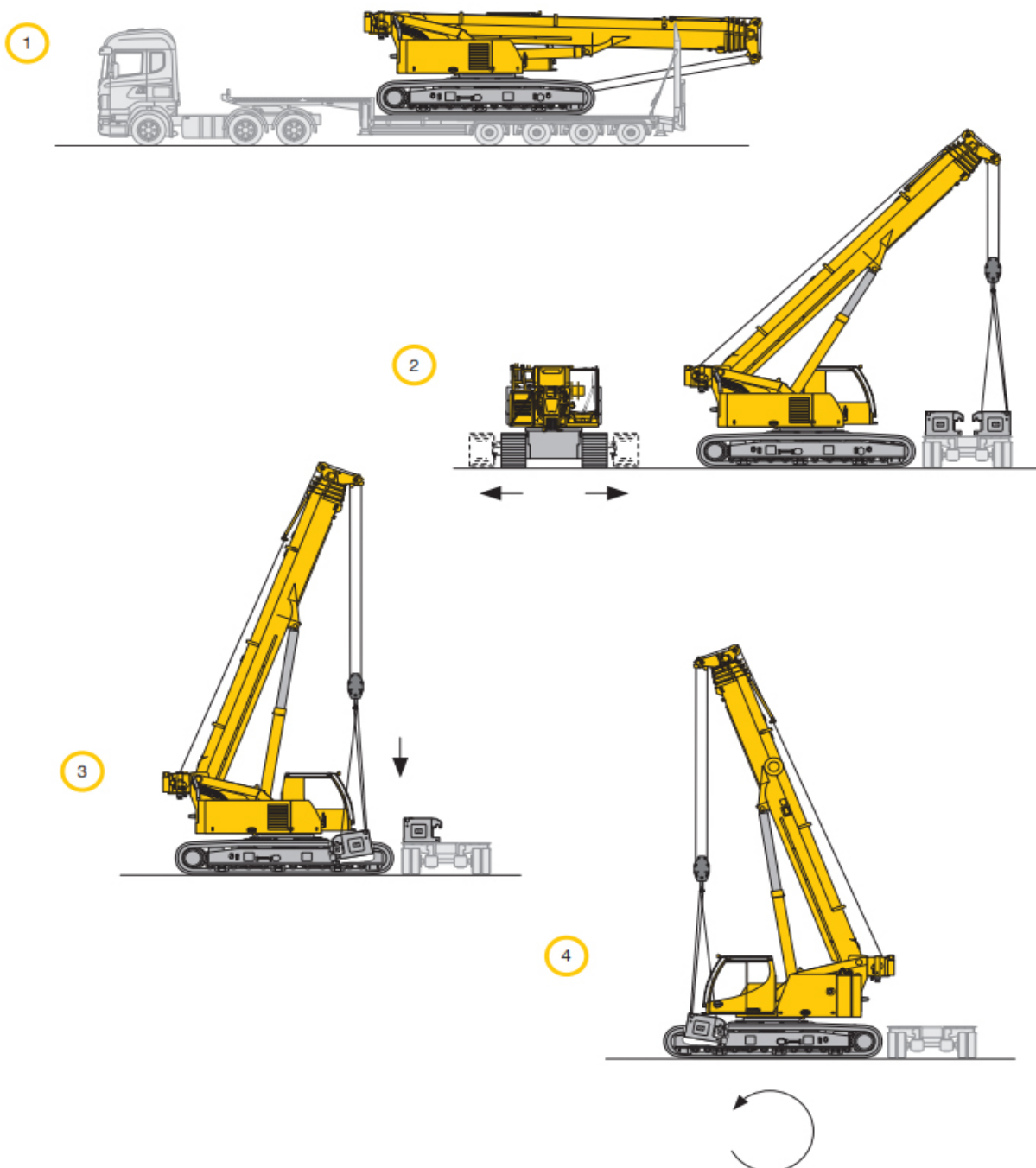


S2400.01



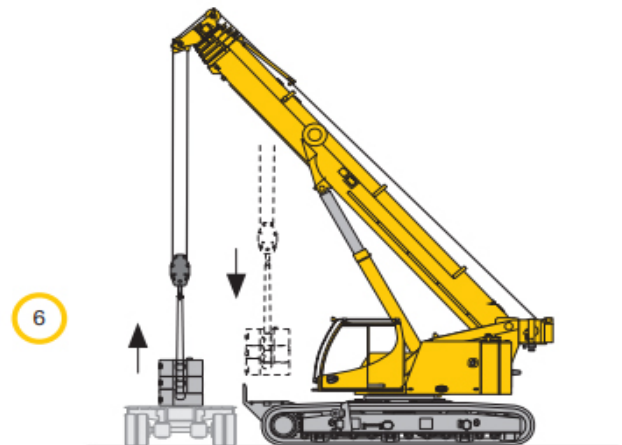
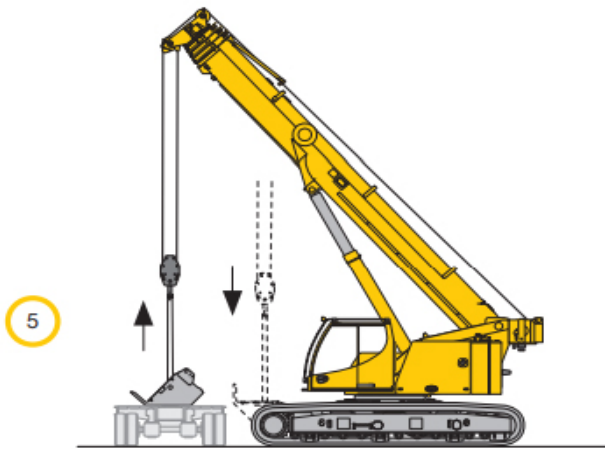
## Transportation plan Plan de transport

Total weight - Poids total: 82675 lbs  
Width - Largeur: 9'10"



S2401

**Transportation plan  
Plan de transport**



S2401





## Overview of load charts Aperçu des tableaux de charge

| <br>T                                                                                                                                           | <br>15.75 ft             |                                                                                            | <br>9.85 ft               |                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 34400 lbs<br>23375 lbs<br>12350 lbs<br>1325 lbs<br>  22050 lbs | <br>n.v. / n. h.<br>±10° | <br>360°  | <br>n.v. / n. h.<br>±10°  | <br>360°  |
| 34400 lbs<br>0 lbs<br>  0 lbs                                  | -                                                                                                         | <br>360°  | -                                                                                                            | -                                                                                            |
| 23375 lbs<br>12350 lbs<br>1325 lbs<br>  0 lbs                | -                                                                                                         | <br>360° | <br>n.v. / n. h.<br>±10° | <br>360° |

Ballast versions see operation manual - variantes de lestage, voir le manuel d'instructions

| <br>T         |                                                                                              | <br>K         |                                                                                             | 8 ft                                                                                        |                                                                                                               | <br>15.75 ft |  | <br>9.85 ft |  |
|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------|--|
| 34400 lbs<br>23375 lbs<br>12350 lbs<br>1325 lbs                                                  |           | 22050 lbs<br> | -                                                                                           | <br>360° | n.v. / n. h.<br><br>±10° | <br>360°   |  |                                                                                                  |  |
| 34400 lbs<br> | 0 lbs<br> | -                                                                                                | <br>360° | -                                                                                           | -                                                                                                             | -                                                                                               |  |                                                                                                  |  |
| 23375 lbs<br>12350 lbs<br>1325 lbs                                                               |           | 0 lbs<br>     | -                                                                                           | <br>360° | n.v. / n. h.<br><br>±10° | <br>360°   |  |                                                                                                  |  |

Ballast versions see operation manual - variantes de lestage, voir le manuel d'instructions



## Lifting capacities Forces de levage

**T**

| <div> <div>33 - 131 ft</div> <div>15.75 ft</div> <div>n.y. / n.h.<br/>±10°</div> <div>34400 lbs</div> <div>22050 lbs</div> <div>75%</div> </div> |       |       |       |       |       |       |        |        |        |        |     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-----|--|
| ft                                                                                                                                               | 33 ft | 45 ft | 56 ft | 67 ft | 78 ft | 90 ft | 101 ft | 112 ft | 123 ft | 131 ft | ft  |  |
| 7                                                                                                                                                | 132.3 | 120.8 | 92.4  | 91.5  | 82.6  |       |        |        |        |        | 7   |  |
| 8                                                                                                                                                | 125.6 | 116.7 | 92.9  | 92    | 83.6  | 65.5  |        |        |        |        | 8   |  |
| 9                                                                                                                                                | 119.3 | 112.8 | 93    | 92.6  | 84.1  | 66.1  |        |        |        |        | 9   |  |
| 10                                                                                                                                               | 112.8 | 109.2 | 93.1  | 93.1  | 84.4  | 66.6  | 50.4   |        |        |        | 10  |  |
| 11                                                                                                                                               | 99.5  | 104.8 | 93.1  | 91.9  | 84.2  | 66.7  | 51     |        |        |        | 11  |  |
| 12                                                                                                                                               | 86.4  | 100.5 | 93.1  | 90.6  | 83.7  | 66.7  | 51.6   |        |        |        | 12  |  |
| 13                                                                                                                                               | 76.2  | 96.4  | 92.1  | 86.7  | 82.1  | 66.7  | 52.1   | 41.5   |        |        | 13  |  |
| 14                                                                                                                                               | 68    | 92.4  | 89.3  | 82.2  | 78    | 66.7  | 52.5   | 41.8   |        |        | 14  |  |
| 15                                                                                                                                               | 61.2  | 87.3  | 84.4  | 78.5  | 73.5  | 66.7  | 52.7   | 42.2   | 32.5   |        | 15  |  |
| 16                                                                                                                                               | 55.6  | 82.5  | 80    | 75    | 70    | 66.7  | 52.5   | 42.3   | 32.7   |        | 16  |  |
| 17                                                                                                                                               | 50.7  | 79.1  | 76.3  | 71.9  | 68.2  | 65.3  | 51.7   | 41.9   | 32.9   |        | 17  |  |
| 18                                                                                                                                               | 45.9  | 75.7  | 74.1  | 70.2  | 66.3  | 63.4  | 50.5   | 41.5   | 33.1   | 25.8   | 18  |  |
| 19                                                                                                                                               | 41.5  | 72.3  | 71.5  | 68.1  | 64.3  | 61.3  | 49.2   | 41     | 33     | 25.8   | 19  |  |
| 20                                                                                                                                               | 37.8  | 68.6  | 68.9  | 65.1  | 62.1  | 58.9  | 48     | 40.2   | 32.9   | 25.9   | 20  |  |
| 22                                                                                                                                               | 31.8  | 59.5  | 60.5  | 58.5  | 56.5  | 53    | 45.6   | 38.5   | 32.1   | 25.8   | 22  |  |
| 24                                                                                                                                               | 27.2  | 51.6  | 52.6  | 52.5  | 51    | 47.9  | 43.2   | 36.9   | 31.3   | 25.4   | 24  |  |
| 26                                                                                                                                               |       |       | 47    | 47.1  | 46.4  | 43.7  | 40.8   | 35.3   | 30.3   | 24.9   | 26  |  |
| 28                                                                                                                                               |       |       | 42    | 42.7  | 42.5  | 40.1  | 37.7   | 33.8   | 29.4   | 24.3   | 28  |  |
| 30                                                                                                                                               |       |       | 37.8  | 38.5  | 38.4  | 37    | 34.8   | 32.3   | 28.4   | 23.6   | 30  |  |
| 32                                                                                                                                               |       |       | 34.3  | 35    | 34.9  | 34.1  | 32.7   | 31     | 27.4   | 23     | 32  |  |
| 34                                                                                                                                               |       |       | 31.4  | 32    | 31.9  | 31.5  | 30.6   | 29     | 26.4   | 22.3   | 34  |  |
| 36                                                                                                                                               |       |       | 28.8  | 29.5  | 29.4  | 28.9  | 29.2   | 27.1   | 25.5   | 21.7   | 36  |  |
| 38                                                                                                                                               |       |       |       | 27.2  | 27.1  | 26.7  | 27.3   | 25.3   | 24.5   | 21.1   | 38  |  |
| 40                                                                                                                                               |       |       |       | 25.2  | 25.2  | 25    | 25.4   | 23.8   | 23.4   | 20.4   | 40  |  |
| 45                                                                                                                                               |       |       |       | 21.2  | 21.1  | 21.8  | 21.3   | 21.1   | 20.3   | 18.8   | 45  |  |
| 50                                                                                                                                               |       |       |       |       | 18.1  | 18.7  | 18.2   | 18     | 17.6   | 17.4   | 50  |  |
| 55                                                                                                                                               |       |       |       |       | 16.4  | 16.3  | 15.8   | 16.1   | 15.8   | 15.6   | 55  |  |
| 60                                                                                                                                               |       |       |       |       |       | 14.3  | 14.2   | 14.1   | 14     | 13.7   | 60  |  |
| 65                                                                                                                                               |       |       |       |       |       | 12.7  | 12.9   | 12.5   | 12.4   | 12     | 65  |  |
| 70                                                                                                                                               |       |       |       |       |       | 11.4  | 11.5   | 11.2   | 11     | 10.6   | 70  |  |
| 75                                                                                                                                               |       |       |       |       |       |       | 10.3   | 9.7    | 9.5    | 9.1    | 75  |  |
| 80                                                                                                                                               |       |       |       |       |       |       | 9      | 8.7    | 8.5    | 8.2    | 80  |  |
| 85                                                                                                                                               |       |       |       |       |       |       |        | 7.9    | 7.7    | 7.3    | 85  |  |
| 90                                                                                                                                               |       |       |       |       |       |       |        | 7.1    | 6.9    | 6.5    | 90  |  |
| 95                                                                                                                                               |       |       |       |       |       |       |        |        | 6.2    | 5.9    | 95  |  |
| 100                                                                                                                                              |       |       |       |       |       |       |        |        | 5.7    | 5.3    | 100 |  |
| 105                                                                                                                                              |       |       |       |       |       |       |        |        |        | 4.7    | 105 |  |
| 110                                                                                                                                              |       |       |       |       |       |       |        |        |        | 4.2    | 110 |  |
| 115                                                                                                                                              |       |       |       |       |       |       |        |        |        | 3.8    | 115 |  |
| 120                                                                                                                                              |       |       |       |       |       |       |        |        |        | 3.3    | 120 |  |

\* 1325 lbs counterweight slabs - 1325 lbs contrepoids de la partie tournante

t\_201\_00004\_00\_000 / 00011\_00\_000



## Lifting capacities Forces de levage

**T**

| <div> <div>33 - 131 ft</div> <div>15.75 ft</div> <div>360°</div> <div>34400 lbs</div> <div>22050 lbs</div> <div>75%</div> </div> |       |       |       |       |       |       |        |        |        |        |     |  |
|----------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-----|--|
| ft                                                                                                                               | 33 ft | 45 ft | 56 ft | 67 ft | 78 ft | 90 ft | 101 ft | 112 ft | 123 ft | 131 ft | ft  |  |
| 10                                                                                                                               | 93.3  | 93.1  | 93.1  | 84.4  | 66.6  | 50.4  |        |        |        |        | 10  |  |
| 11                                                                                                                               | 93.3  | 93.1  | 91.9  | 84.2  | 66.7  | 51    |        |        |        |        | 11  |  |
| 12                                                                                                                               | 93.3  | 93.1  | 90.6  | 83.7  | 66.7  | 51.6  |        |        |        |        | 12  |  |
| 13                                                                                                                               | 93.3  | 92.1  | 86.7  | 82.1  | 66.7  | 52.1  | 41.5   |        |        |        | 13  |  |
| 14                                                                                                                               | 92.2  | 89.3  | 82.2  | 78    | 66.7  | 52.5  | 41.8   |        |        |        | 14  |  |
| 15                                                                                                                               | 87.3  | 84.4  | 78.5  | 73.5  | 66.7  | 52.7  | 42.2   | 32.5   |        |        | 15  |  |
| 16                                                                                                                               | 82.5  | 80    | 75    | 70    | 66.7  | 52.5  | 42.3   | 32.7   |        |        | 16  |  |
| 17                                                                                                                               | 79.1  | 76.3  | 71.9  | 68.2  | 65.3  | 51.7  | 41.9   | 32.9   |        |        | 17  |  |
| 18                                                                                                                               | 75.7  | 74.1  | 70.2  | 66.3  | 63.4  | 50.5  | 41.5   | 33.1   | 25.8   |        | 18  |  |
| 19                                                                                                                               | 72.3  | 71.5  | 68.1  | 64.3  | 61.1  | 49.2  | 41     | 33     | 25.8   |        | 19  |  |
| 20                                                                                                                               | 67.8  | 68.3  | 64.3  | 61.9  | 57.7  | 48    | 40.2   | 32.9   | 25.9   | 22.1   | 20  |  |
| 22                                                                                                                               | 58.2  | 59.2  | 57.3  | 55.3  | 52    | 45.6  | 38.5   | 32.1   | 25.8   | 22.2   | 22  |  |
| 24                                                                                                                               | 50.5  | 51.8  | 51.4  | 50    | 47    | 43.2  | 36.9   | 31.3   | 25.4   | 22.2   | 24  |  |
| 26                                                                                                                               |       | 46.1  | 46.8  | 45.5  | 42.8  | 40.4  | 35.3   | 30.3   | 24.9   | 21.9   | 26  |  |
| 28                                                                                                                               |       | 41.1  | 41.9  | 41.6  | 39.3  | 37    | 33.8   | 29.4   | 24.3   | 21.5   | 28  |  |
| 30                                                                                                                               |       | 37.1  | 37.7  | 37.7  | 36.3  | 34.4  | 32.2   | 28.4   | 23.6   | 21.1   | 30  |  |
| 32                                                                                                                               |       | 33.7  | 34.4  | 34.3  | 33.5  | 32.3  | 30.4   | 27.4   | 23     | 20.7   | 32  |  |
| 34                                                                                                                               |       | 30.8  | 31.4  | 31.3  | 30.9  | 30.4  | 28.5   | 26.4   | 22.3   | 20.1   | 34  |  |
| 36                                                                                                                               |       | 28.3  | 28.9  | 28.8  | 28.4  | 28.7  | 26.5   | 25.5   | 21.7   | 19.4   | 36  |  |
| 38                                                                                                                               |       |       | 26.7  | 26.6  | 26.3  | 26.8  | 24.8   | 24.3   | 21.1   | 18.8   | 38  |  |
| 40                                                                                                                               |       |       | 24.8  | 24.8  | 25    | 24.9  | 23.5   | 23     | 20.4   | 18.3   | 40  |  |
| 45                                                                                                                               |       |       | 20.9  | 20.7  | 21.4  | 20.9  | 20.7   | 19.9   | 18.8   | 17     | 45  |  |
| 50                                                                                                                               |       |       |       | 18.1  | 18.3  | 17.9  | 17.9   | 17.4   | 17.3   | 15.9   | 50  |  |
| 55                                                                                                                               |       |       |       | 16.1  | 16    | 15.5  | 15.8   | 15.7   | 15.3   | 14.9   | 55  |  |
| 60                                                                                                                               |       |       |       |       | 14    | 14.1  | 13.8   | 13.7   | 13.4   | 13.4   | 60  |  |
| 65                                                                                                                               |       |       |       |       | 12.4  | 12.6  | 12.4   | 12.2   | 11.8   | 11.8   | 65  |  |
| 70                                                                                                                               |       |       |       |       | 11.2  | 11.3  | 11     | 10.8   | 10.4   | 10.5   | 70  |  |
| 75                                                                                                                               |       |       |       |       |       | 10.1  | 9.7    | 9.5    | 9.1    | 9.1    | 75  |  |
| 80                                                                                                                               |       |       |       |       |       | 9     | 8.7    | 8.5    | 8.2    | 8.2    | 80  |  |
| 85                                                                                                                               |       |       |       |       |       |       | 7.9    | 7.7    | 7.3    | 7.3    | 85  |  |
| 90                                                                                                                               |       |       |       |       |       |       | 7.1    | 6.9    | 6.5    | 6.5    | 90  |  |
| 95                                                                                                                               |       |       |       |       |       |       |        | 6.2    | 5.9    | 5.9    | 95  |  |
| 100                                                                                                                              |       |       |       |       |       |       |        | 5.7    | 5.2    | 5.2    | 100 |  |
| 105                                                                                                                              |       |       |       |       |       |       |        |        | 4.7    | 4.7    | 105 |  |
| 110                                                                                                                              |       |       |       |       |       |       |        |        | 4.2    | 4.2    | 110 |  |
| 115                                                                                                                              |       |       |       |       |       |       |        |        | 3.7    | 3.7    | 115 |  |
| 120                                                                                                                              |       |       |       |       |       |       |        |        |        | 3.3    | 120 |  |

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## Lifting capacities Forces de levage

**T**

|     |  ft |  33 - 131 ft<br>T |  9.85 ft |  n.v. / n.h.<br>±10° |  34400 lbs |  22050 lbs |  75% |        |        |        |        |  |  |  ft |
|-----|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------|--------|--------|--------|--|--|----------------------------------------------------------------------------------------|
|     |                                                                                      | 33 ft                                                                                              | 45 ft                                                                                     | 56 ft                                                                                                 | 67 ft                                                                                       | 78 ft                                                                                       | 90 ft                                                                                 | 101 ft | 112 ft | 123 ft | 131 ft |  |  |                                                                                        |
| 7   |                                                                                      | 93.3                                                                                               | 92.4                                                                                      | 91.5                                                                                                  | 82.6                                                                                        |                                                                                             |                                                                                       |        |        |        |        |  |  | 7                                                                                      |
| 8   |                                                                                      | 93.3                                                                                               | 92.9                                                                                      | 92                                                                                                    | 83.6                                                                                        | 65.5                                                                                        |                                                                                       |        |        |        |        |  |  | 8                                                                                      |
| 9   |                                                                                      | 93.3                                                                                               | 93                                                                                        | 92.6                                                                                                  | 84.1                                                                                        | 66.1                                                                                        |                                                                                       |        |        |        |        |  |  | 9                                                                                      |
| 10  |                                                                                      | 93.3                                                                                               | 93.1                                                                                      | 93.1                                                                                                  | 84.4                                                                                        | 66.6                                                                                        | 50.4                                                                                  |        |        |        |        |  |  | 10                                                                                     |
| 11  |                                                                                      | 93.3                                                                                               | 93.1                                                                                      | 91.9                                                                                                  | 84.2                                                                                        | 66.7                                                                                        | 51                                                                                    |        |        |        |        |  |  | 11                                                                                     |
| 12  |                                                                                      | 93.3                                                                                               | 93.1                                                                                      | 90.6                                                                                                  | 83.7                                                                                        | 66.7                                                                                        | 51.6                                                                                  |        |        |        |        |  |  | 12                                                                                     |
| 13  |                                                                                      | 93.3                                                                                               | 92.1                                                                                      | 86.7                                                                                                  | 81.6                                                                                        | 66.7                                                                                        | 52.1                                                                                  | 41.5   |        |        |        |  |  | 13                                                                                     |
| 14  |                                                                                      | 92.2                                                                                               | 89.3                                                                                      | 82.2                                                                                                  | 77.9                                                                                        | 66.3                                                                                        | 52.5                                                                                  | 41.8   |        |        |        |  |  | 14                                                                                     |
| 15  |                                                                                      | 87.3                                                                                               | 84.4                                                                                      | 78.5                                                                                                  | 73.5                                                                                        | 65.3                                                                                        | 52.7                                                                                  | 42.2   | 32.5   |        |        |  |  | 15                                                                                     |
| 16  |                                                                                      | 82.5                                                                                               | 80                                                                                        | 75                                                                                                    | 70                                                                                          | 63.2                                                                                        | 52.5                                                                                  | 42.3   | 32.7   |        |        |  |  | 16                                                                                     |
| 17  |                                                                                      | 79.1                                                                                               | 76.3                                                                                      | 71.9                                                                                                  | 68.2                                                                                        | 61.2                                                                                        | 51.7                                                                                  | 41.9   | 32.9   |        |        |  |  | 17                                                                                     |
| 18  |                                                                                      | 75.7                                                                                               | 74.1                                                                                      | 70.2                                                                                                  | 66.3                                                                                        | 59.4                                                                                        | 50.5                                                                                  | 41.5   | 33.1   | 25.8   |        |  |  | 18                                                                                     |
| 19  |                                                                                      | 72.3                                                                                               | 71.5                                                                                      | 68.1                                                                                                  | 64.3                                                                                        | 57.7                                                                                        | 49.2                                                                                  | 41     | 33     | 25.8   |        |  |  | 19                                                                                     |
| 20  |                                                                                      | 68.6                                                                                               | 68.9                                                                                      | 65.1                                                                                                  | 62.1                                                                                        | 56                                                                                          | 48                                                                                    | 40.2   | 32.9   | 25.9   | 22.1   |  |  | 20                                                                                     |
| 22  |                                                                                      | 59.5                                                                                               | 60.5                                                                                      | 58.5                                                                                                  | 56.5                                                                                        | 52.5                                                                                        | 45.6                                                                                  | 38.5   | 32.1   | 25.8   | 22.2   |  |  | 22                                                                                     |
| 24  |                                                                                      | 51.6                                                                                               | 52.6                                                                                      | 52.5                                                                                                  | 51                                                                                          | 47.9                                                                                        | 43.2                                                                                  | 36.9   | 31.3   | 25.4   | 22.2   |  |  | 24                                                                                     |
| 26  |                                                                                      |                                                                                                    | 47                                                                                        | 47.1                                                                                                  | 46.4                                                                                        | 43.7                                                                                        | 40.8                                                                                  | 35.3   | 30.3   | 24.9   | 21.9   |  |  | 26                                                                                     |
| 28  |                                                                                      |                                                                                                    | 42                                                                                        | 42.7                                                                                                  | 42.5                                                                                        | 40.1                                                                                        | 37.7                                                                                  | 33.8   | 29.4   | 24.3   | 21.5   |  |  | 28                                                                                     |
| 30  |                                                                                      |                                                                                                    | 37.8                                                                                      | 38.5                                                                                                  | 38.4                                                                                        | 37                                                                                          | 34.8                                                                                  | 32.3   | 28.4   | 23.6   | 21.1   |  |  | 30                                                                                     |
| 32  |                                                                                      |                                                                                                    | 34.3                                                                                      | 35                                                                                                    | 34.9                                                                                        | 34.1                                                                                        | 32.7                                                                                  | 31     | 27.4   | 23     | 20.7   |  |  | 32                                                                                     |
| 34  |                                                                                      |                                                                                                    | 31.4                                                                                      | 32                                                                                                    | 31.9                                                                                        | 31.5                                                                                        | 30.6                                                                                  | 29     | 26.4   | 22.3   | 20.1   |  |  | 34                                                                                     |
| 36  |                                                                                      |                                                                                                    | 28.8                                                                                      | 29.5                                                                                                  | 29.4                                                                                        | 28.9                                                                                        | 29.2                                                                                  | 27.1   | 25.5   | 21.7   | 19.4   |  |  | 36                                                                                     |
| 38  |                                                                                      |                                                                                                    |                                                                                           | 27.2                                                                                                  | 27.1                                                                                        | 26.7                                                                                        | 27.3                                                                                  | 25.3   | 24.5   | 21.1   | 18.8   |  |  | 38                                                                                     |
| 40  |                                                                                      |                                                                                                    |                                                                                           | 25.2                                                                                                  | 25.2                                                                                        | 25                                                                                          | 25.4                                                                                  | 23.8   | 23.4   | 20.4   | 18.3   |  |  | 40                                                                                     |
| 45  |                                                                                      |                                                                                                    |                                                                                           | 21.2                                                                                                  | 21.1                                                                                        | 21.8                                                                                        | 21.3                                                                                  | 21.1   | 20.3   | 18.8   | 17     |  |  | 45                                                                                     |
| 50  |                                                                                      |                                                                                                    |                                                                                           |                                                                                                       | 18.1                                                                                        | 18.7                                                                                        | 18.2                                                                                  | 18     | 17.6   | 17.4   | 15.9   |  |  | 50                                                                                     |
| 55  |                                                                                      |                                                                                                    |                                                                                           |                                                                                                       | 16.4                                                                                        | 16.3                                                                                        | 15.8                                                                                  | 16.1   | 15.8   | 15.6   | 14.9   |  |  | 55                                                                                     |
| 60  |                                                                                      |                                                                                                    |                                                                                           |                                                                                                       |                                                                                             | 14.3                                                                                        | 14.2                                                                                  | 14.1   | 14     | 13.7   | 13.7   |  |  | 60                                                                                     |
| 65  |                                                                                      |                                                                                                    |                                                                                           |                                                                                                       |                                                                                             | 12.7                                                                                        | 12.9                                                                                  | 12.5   | 12.4   | 12     | 12.1   |  |  | 65                                                                                     |
| 70  |                                                                                      |                                                                                                    |                                                                                           |                                                                                                       |                                                                                             | 11.4                                                                                        | 11.5                                                                                  | 11.2   | 11     | 10.6   | 10.7   |  |  | 70                                                                                     |
| 75  |                                                                                      |                                                                                                    |                                                                                           |                                                                                                       |                                                                                             |                                                                                             | 10.3                                                                                  | 9.7    | 9.5    | 9.1    | 9.1    |  |  | 75                                                                                     |
| 80  |                                                                                      |                                                                                                    |                                                                                           |                                                                                                       |                                                                                             |                                                                                             | 9                                                                                     | 8.7    | 8.5    | 8.2    | 8.2    |  |  | 80                                                                                     |
| 85  |                                                                                      |                                                                                                    |                                                                                           |                                                                                                       |                                                                                             |                                                                                             |                                                                                       | 7.9    | 7.7    | 7.3    | 7.3    |  |  | 85                                                                                     |
| 90  |                                                                                      |                                                                                                    |                                                                                           |                                                                                                       |                                                                                             |                                                                                             |                                                                                       | 7.1    | 6.9    | 6.5    | 6.5    |  |  | 90                                                                                     |
| 95  |                                                                                      |                                                                                                    |                                                                                           |                                                                                                       |                                                                                             |                                                                                             |                                                                                       |        | 6.2    | 5.9    | 5.9    |  |  | 95                                                                                     |
| 100 |                                                                                      |                                                                                                    |                                                                                           |                                                                                                       |                                                                                             |                                                                                             |                                                                                       |        | 5.7    | 5.3    | 5.3    |  |  | 100                                                                                    |
| 105 |                                                                                      |                                                                                                    |                                                                                           |                                                                                                       |                                                                                             |                                                                                             |                                                                                       |        |        | 4.7    | 4.7    |  |  | 105                                                                                    |
| 110 |                                                                                      |                                                                                                    |                                                                                           |                                                                                                       |                                                                                             |                                                                                             |                                                                                       |        |        | 4.2    | 4.2    |  |  | 110                                                                                    |
| 115 |                                                                                      |                                                                                                    |                                                                                           |                                                                                                       |                                                                                             |                                                                                             |                                                                                       |        |        | 3.8    | 3.7    |  |  | 115                                                                                    |
| 120 |                                                                                      |                                                                                                    |                                                                                           |                                                                                                       |                                                                                             |                                                                                             |                                                                                       |        |        |        | 3.3    |  |  | 120                                                                                    |

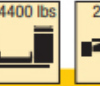
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## Lifting capacities Forces de levage

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|     |  ft |  33 - 131 ft |  9.85 ft |  360° |  34400 lbs |  22050 lbs |  75% |        |        |        |        |  |  |  |  ft |
|-----|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------|--------|--------|--------|--|--|--|----------------------------------------------------------------------------------------|
|     | ft                                                                                   | 33 ft                                                                                         | 45 ft                                                                                     | 56 ft                                                                                  | 67 ft                                                                                       | 78 ft                                                                                       | 90 ft                                                                                 | 101 ft | 112 ft | 123 ft | 131 ft |  |  |  | ft                                                                                     |
| 16  |                                                                                      | 52.5                                                                                          |                                                                                           |                                                                                        |                                                                                             |                                                                                             |                                                                                       |        |        |        |        |  |  |  | 16                                                                                     |
| 17  |                                                                                      | 48.2                                                                                          | 45.8                                                                                      |                                                                                        |                                                                                             |                                                                                             |                                                                                       |        |        |        |        |  |  |  | 17                                                                                     |
| 18  |                                                                                      | 44.1                                                                                          | 42.8                                                                                      |                                                                                        |                                                                                             |                                                                                             |                                                                                       |        |        |        |        |  |  |  | 18                                                                                     |
| 19  |                                                                                      | 40.7                                                                                          | 41.2                                                                                      | 37.5                                                                                   | 34.5                                                                                        |                                                                                             |                                                                                       |        |        |        |        |  |  |  | 19                                                                                     |
| 20  |                                                                                      | 37.8                                                                                          | 39.2                                                                                      | 36.7                                                                                   | 33.4                                                                                        |                                                                                             |                                                                                       |        |        |        |        |  |  |  | 20                                                                                     |
| 22  |                                                                                      | 32.8                                                                                          | 34.2                                                                                      | 32.8                                                                                   | 30.6                                                                                        | 28.4                                                                                        |                                                                                       |        |        |        |        |  |  |  | 22                                                                                     |
| 24  |                                                                                      | 28.8                                                                                          | 30.2                                                                                      | 30.9                                                                                   | 27.6                                                                                        | 25.7                                                                                        |                                                                                       |        |        |        |        |  |  |  | 24                                                                                     |
| 26  |                                                                                      |                                                                                               | 26.9                                                                                      | 27.7                                                                                   | 26.9                                                                                        | 25.2                                                                                        | 24                                                                                    | 22.4   |        |        |        |  |  |  | 26                                                                                     |
| 28  |                                                                                      |                                                                                               | 24.2                                                                                      | 25                                                                                     | 25.5                                                                                        | 23.9                                                                                        | 22.7                                                                                  | 20.6   |        |        |        |  |  |  | 28                                                                                     |
| 30  |                                                                                      |                                                                                               | 21.9                                                                                      | 22.6                                                                                   | 23.3                                                                                        | 22.7                                                                                        | 21.9                                                                                  | 20.6   | 18.7   |        |        |  |  |  | 30                                                                                     |
| 32  |                                                                                      |                                                                                               | 20                                                                                        | 20.7                                                                                   | 21.3                                                                                        | 21.1                                                                                        | 20.4                                                                                  | 19.3   | 18.4   | 17.3   |        |  |  |  | 32                                                                                     |
| 34  |                                                                                      |                                                                                               | 18.3                                                                                      | 18.9                                                                                   | 19.5                                                                                        | 19.6                                                                                        | 18.9                                                                                  | 18     | 17.1   | 16.1   |        |  |  |  | 34                                                                                     |
| 36  |                                                                                      |                                                                                               | 16.8                                                                                      | 17.4                                                                                   | 18                                                                                          | 18.1                                                                                        | 17.7                                                                                  | 16.8   | 16     | 15     | 14.7   |  |  |  | 36                                                                                     |
| 38  |                                                                                      |                                                                                               |                                                                                           | 16.1                                                                                   | 16.7                                                                                        | 16.7                                                                                        | 16.6                                                                                  | 15.8   | 15     | 14.1   | 13.7   |  |  |  | 38                                                                                     |
| 40  |                                                                                      |                                                                                               |                                                                                           | 14.9                                                                                   | 15.5                                                                                        | 15.5                                                                                        | 15.5                                                                                  | 14.8   | 14     | 13.1   | 12.9   |  |  |  | 40                                                                                     |
| 45  |                                                                                      |                                                                                               |                                                                                           | 12.5                                                                                   | 13.1                                                                                        | 13.1                                                                                        | 13.1                                                                                  | 12.7   | 12     | 11.2   | 11     |  |  |  | 45                                                                                     |
| 50  |                                                                                      |                                                                                               |                                                                                           |                                                                                        | 11.1                                                                                        | 11.2                                                                                        | 11.2                                                                                  | 11     | 10.4   | 9.6    | 9.4    |  |  |  | 50                                                                                     |
| 55  |                                                                                      |                                                                                               |                                                                                           |                                                                                        | 9.6                                                                                         | 9.6                                                                                         | 9.7                                                                                   | 9.4    | 9      | 8.3    | 8.1    |  |  |  | 55                                                                                     |
| 60  |                                                                                      |                                                                                               |                                                                                           |                                                                                        |                                                                                             | 8.4                                                                                         | 8.4                                                                                   | 8.2    | 7.8    | 7.2    | 7      |  |  |  | 60                                                                                     |
| 65  |                                                                                      |                                                                                               |                                                                                           |                                                                                        |                                                                                             | 7.3                                                                                         | 7.4                                                                                   | 7.1    | 6.8    | 6.2    | 6.1    |  |  |  | 65                                                                                     |
| 70  |                                                                                      |                                                                                               |                                                                                           |                                                                                        |                                                                                             | 6.4                                                                                         | 6.4                                                                                   | 6.1    | 5.9    | 5.4    | 5.3    |  |  |  | 70                                                                                     |
| 75  |                                                                                      |                                                                                               |                                                                                           |                                                                                        |                                                                                             |                                                                                             | 5.6                                                                                   | 5.3    | 5.1    | 4.6    | 4.5    |  |  |  | 75                                                                                     |
| 80  |                                                                                      |                                                                                               |                                                                                           |                                                                                        |                                                                                             |                                                                                             | 5                                                                                     | 4.6    | 4.4    | 4      | 3.9    |  |  |  | 80                                                                                     |
| 85  |                                                                                      |                                                                                               |                                                                                           |                                                                                        |                                                                                             |                                                                                             |                                                                                       | 4      | 3.8    | 3.4    | 3.4    |  |  |  | 85                                                                                     |
| 90  |                                                                                      |                                                                                               |                                                                                           |                                                                                        |                                                                                             |                                                                                             |                                                                                       | 3.5    | 3.2    | 2.8    | 2.8    |  |  |  | 90                                                                                     |
| 95  |                                                                                      |                                                                                               |                                                                                           |                                                                                        |                                                                                             |                                                                                             |                                                                                       |        | 2.8    | 2.3    | 2.3    |  |  |  | 95                                                                                     |
| 100 |                                                                                      |                                                                                               |                                                                                           |                                                                                        |                                                                                             |                                                                                             |                                                                                       |        | 2.3    | 1.9    | 1.9    |  |  |  | 100                                                                                    |

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## Lifting capacities Forces de levage

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| <div> <div>33 - 131 ft</div> <div>15.75 ft</div> <div>n.v. / n.h.<br/>±10°</div> <div>23375 lbs</div> <div>22050 lbs</div> <div>75%</div> </div> |       |       |       |       |       |       |        |        |        |        |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-----|
| ft                                                                                                                                               | 33 ft | 45 ft | 56 ft | 67 ft | 78 ft | 90 ft | 101 ft | 112 ft | 123 ft | 131 ft | ft  |
| 7                                                                                                                                                | 125.2 | 92.4  | 91.5  | 82.6  |       |       |        |        |        |        | 7   |
| 8                                                                                                                                                | 120.9 | 92.9  | 92    | 83.6  | 65.5  |       |        |        |        |        | 8   |
| 9                                                                                                                                                | 116.5 | 93    | 92.6  | 84.1  | 66.1  |       |        |        |        |        | 9   |
| 10                                                                                                                                               | 111.3 | 93.1  | 93.1  | 84.4  | 66.6  | 50.4  |        |        |        |        | 10  |
| 11                                                                                                                                               | 106.5 | 93.1  | 91.9  | 84.2  | 66.7  | 51    |        |        |        |        | 11  |
| 12                                                                                                                                               | 101.9 | 93.1  | 90.6  | 83.7  | 66.7  | 51.6  |        |        |        |        | 12  |
| 13                                                                                                                                               | 97.1  | 92.1  | 86.7  | 82.1  | 66.7  | 52.1  | 41.5   |        |        |        | 13  |
| 14                                                                                                                                               | 91.9  | 89.3  | 81.8  | 77.6  | 66.7  | 52.5  | 41.8   |        |        |        | 14  |
| 15                                                                                                                                               | 86.8  | 84.4  | 77.1  | 71.9  | 66.4  | 52.7  | 42.2   | 32.5   |        |        | 15  |
| 16                                                                                                                                               | 81.9  | 78.4  | 72    | 68.7  | 63.7  | 52.5  | 42.3   | 32.7   |        |        | 16  |
| 17                                                                                                                                               | 76.8  | 73.4  | 67.6  | 64.8  | 60    | 51.7  | 41.9   | 32.9   |        |        | 17  |
| 18                                                                                                                                               | 71.1  | 68    | 63.4  | 60.7  | 56.2  | 50.4  | 41.5   | 33.1   | 25.8   |        | 18  |
| 19                                                                                                                                               | 64.6  | 63.4  | 59.1  | 56.9  | 52.8  | 48.7  | 41     | 33     | 25.8   |        | 19  |
| 20                                                                                                                                               | 59.2  | 59.3  | 56.3  | 53.5  | 49.8  | 46.4  | 40.2   | 32.9   | 25.9   | 22.1   | 20  |
| 22                                                                                                                                               | 50.2  | 52    | 50.7  | 47.7  | 44.7  | 41.9  | 38.5   | 32.1   | 25.8   | 22.2   | 22  |
| 24                                                                                                                                               | 43.4  | 45.1  | 45.5  | 43    | 40.2  | 38.4  | 36.1   | 31.3   | 25.4   | 22.2   | 24  |
| 26                                                                                                                                               |       | 39.7  | 40.5  | 39    | 36.6  | 35.7  | 32.9   | 30.3   | 24.9   | 21.9   | 26  |
| 28                                                                                                                                               |       | 35.4  | 36.1  | 35.6  | 33.6  | 32.9  | 30.2   | 29.1   | 24.3   | 21.5   | 28  |
| 30                                                                                                                                               |       | 31.8  | 32.4  | 32.4  | 31.1  | 30.4  | 28.6   | 27.3   | 23.6   | 21.1   | 30  |
| 32                                                                                                                                               |       | 28.8  | 29.5  | 29.4  | 29.5  | 28.2  | 26.7   | 25.3   | 23     | 20.7   | 32  |
| 34                                                                                                                                               |       | 26.2  | 26.8  | 26.8  | 27.5  | 26.1  | 24.9   | 23.5   | 22.3   | 20.1   | 34  |
| 36                                                                                                                                               |       | 24    | 24.7  | 24.6  | 25.3  | 24.4  | 23.2   | 22.4   | 21.6   | 19.4   | 36  |
| 38                                                                                                                                               |       |       | 22.8  | 23.1  | 23.3  | 22.7  | 22.2   | 21.3   | 20.5   | 18.8   | 38  |
| 40                                                                                                                                               |       |       | 21.2  | 21.8  | 21.6  | 21.2  | 21.1   | 20.2   | 19.2   | 18.2   | 40  |
| 45                                                                                                                                               |       |       | 17.7  | 18.3  | 18.1  | 18.1  | 18     | 17.5   | 16.5   | 16.2   | 45  |
| 50                                                                                                                                               |       |       |       | 15.6  | 15.4  | 15.7  | 15.5   | 15.2   | 14.4   | 14.1   | 50  |
| 55                                                                                                                                               |       |       |       | 13.6  | 13.5  | 13.6  | 13.3   | 13.1   | 12.5   | 12.3   | 55  |
| 60                                                                                                                                               |       |       |       |       | 11.8  | 11.9  | 11.6   | 11.4   | 11     | 10.8   | 60  |
| 65                                                                                                                                               |       |       |       |       | 10.4  | 10.2  | 9.9    | 9.7    | 9.2    | 9.2    | 65  |
| 70                                                                                                                                               |       |       |       |       | 8.9   | 8.9   | 8.6    | 8.4    | 8      | 8.1    | 70  |
| 75                                                                                                                                               |       |       |       |       |       | 7.9   | 7.6    | 7.4    | 7      | 7.1    | 75  |
| 80                                                                                                                                               |       |       |       |       |       | 7.1   | 6.8    | 6.6    | 6.2    | 6.2    | 80  |
| 85                                                                                                                                               |       |       |       |       |       |       | 6.1    | 5.8    | 5.5    | 5.5    | 85  |
| 90                                                                                                                                               |       |       |       |       |       |       | 5.4    | 5.2    | 4.8    | 4.8    | 90  |
| 95                                                                                                                                               |       |       |       |       |       |       |        | 4.6    | 4.2    | 4.2    | 95  |
| 100                                                                                                                                              |       |       |       |       |       |       |        | 4.1    | 3.7    | 3.7    | 100 |
| 105                                                                                                                                              |       |       |       |       |       |       |        |        | 3.2    | 3.2    | 105 |
| 110                                                                                                                                              |       |       |       |       |       |       |        |        | 2.8    | 2.8    | 110 |
| 115                                                                                                                                              |       |       |       |       |       |       |        |        | 2.4    | 2.4    | 115 |
| 120                                                                                                                                              |       |       |       |       |       |       |        |        |        | 2      | 120 |

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## Lifting capacities Forces de levage

**T**

| <div> <div>33 - 131 ft</div> <div>15.75 ft</div> <div>360°</div> <div>23375 lbs</div> <div>22050 lbs</div> <div>75%</div> </div> |       |       |       |       |       |       |        |        |        |        |     |  |
|----------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-----|--|
| ft                                                                                                                               | 33 ft | 45 ft | 56 ft | 67 ft | 78 ft | 90 ft | 101 ft | 112 ft | 123 ft | 131 ft | ft  |  |
| 10                                                                                                                               | 93.3  | 93.1  | 93.1  | 84.4  | 66.6  | 50.4  |        |        |        |        | 10  |  |
| 11                                                                                                                               | 93.3  | 93.1  | 91.9  | 84.2  | 66.7  | 51    |        |        |        |        | 11  |  |
| 12                                                                                                                               | 93.3  | 93.1  | 90.6  | 83.7  | 66.7  | 51.6  |        |        |        |        | 12  |  |
| 13                                                                                                                               | 93.2  | 92.1  | 86.7  | 82.1  | 66.7  | 52.1  | 41.5   |        |        |        | 13  |  |
| 14                                                                                                                               | 91.9  | 89.2  | 81.5  | 76.2  | 66.7  | 52.5  | 41.8   |        |        |        | 14  |  |
| 15                                                                                                                               | 86.8  | 82.8  | 75.8  | 70.8  | 66.3  | 52.7  | 42.2   | 32.5   |        |        | 15  |  |
| 16                                                                                                                               | 81.9  | 76.5  | 70.3  | 67.8  | 62.5  | 52.5  | 42.3   | 32.7   |        |        | 16  |  |
| 17                                                                                                                               | 75.9  | 71.7  | 66.2  | 63.3  | 58.6  | 51.7  | 41.9   | 32.9   |        |        | 17  |  |
| 18                                                                                                                               | 69.3  | 66.4  | 62    | 59.3  | 55    | 50.3  | 41.5   | 33.1   | 25.8   |        | 18  |  |
| 19                                                                                                                               | 63    | 61.9  | 58.7  | 55.7  | 51.7  | 47.9  | 41     | 33     | 25.8   |        | 19  |  |
| 20                                                                                                                               | 57.7  | 58    | 55.6  | 52.3  | 48.7  | 45.4  | 40.2   | 32.9   | 25.9   | 22.1   | 20  |  |
| 22                                                                                                                               | 49.1  | 50.8  | 49.6  | 46.7  | 43.7  | 41.3  | 38.5   | 32.1   | 25.8   | 22.2   | 22  |  |
| 24                                                                                                                               | 42.5  | 44.1  | 44.5  | 42.1  | 39.4  | 37.7  | 35.3   | 31.3   | 25.4   | 22.2   | 24  |  |
| 26                                                                                                                               |       | 38.9  | 39.7  | 38.2  | 35.9  | 35.2  | 32.2   | 30.3   | 24.9   | 21.9   | 26  |  |
| 28                                                                                                                               |       | 34.6  | 35.4  | 34.9  | 33.1  | 32.2  | 30.1   | 28.9   | 24.3   | 21.5   | 28  |  |
| 30                                                                                                                               |       | 31.2  | 31.8  | 31.8  | 31    | 29.8  | 28.3   | 26.7   | 23.6   | 21.1   | 30  |  |
| 32                                                                                                                               |       | 28.2  | 28.9  | 28.8  | 29.2  | 27.6  | 26.2   | 24.7   | 23     | 20.7   | 32  |  |
| 34                                                                                                                               |       | 25.7  | 26.3  | 26.3  | 27    | 25.6  | 24.4   | 23.1   | 22.3   | 20.1   | 34  |  |
| 36                                                                                                                               |       | 23.5  | 24.2  | 24.2  | 24.8  | 23.9  | 23     | 22.4   | 21.3   | 19.4   | 36  |  |
| 38                                                                                                                               |       |       | 22.4  | 22.9  | 22.8  | 22.3  | 21.9   | 21.2   | 20     | 18.8   | 38  |  |
| 40                                                                                                                               |       |       | 20.7  | 21.4  | 21.2  | 20.8  | 20.6   | 19.9   | 18.8   | 18.2   | 40  |  |
| 45                                                                                                                               |       |       | 17.4  | 17.9  | 17.8  | 18    | 17.8   | 17.1   | 16.1   | 15.9   | 45  |  |
| 50                                                                                                                               |       |       |       | 15.3  | 15.2  | 15.4  | 15.2   | 14.9   | 14     | 13.8   | 50  |  |
| 55                                                                                                                               |       |       |       | 13.3  | 13.3  | 13.3  | 13.1   | 12.9   | 12.3   | 12.1   | 55  |  |
| 60                                                                                                                               |       |       |       |       | 11.6  | 11.7  | 11.4   | 11.2   | 10.8   | 10.6   | 60  |  |
| 65                                                                                                                               |       |       |       |       | 10.2  | 10.1  | 9.9    | 9.7    | 9.2    | 9.2    | 65  |  |
| 70                                                                                                                               |       |       |       |       | 8.9   | 8.9   | 8.6    | 8.4    | 8      | 8.1    | 70  |  |
| 75                                                                                                                               |       |       |       |       |       | 7.9   | 7.6    | 7.4    | 7      | 7.1    | 75  |  |
| 80                                                                                                                               |       |       |       |       |       | 7.1   | 6.8    | 6.6    | 6.2    | 6.2    | 80  |  |
| 85                                                                                                                               |       |       |       |       |       |       | 6.1    | 5.8    | 5.5    | 5.5    | 85  |  |
| 90                                                                                                                               |       |       |       |       |       |       | 5.4    | 5.2    | 4.8    | 4.8    | 90  |  |
| 95                                                                                                                               |       |       |       |       |       |       |        | 4.6    | 4.2    | 4.2    | 95  |  |
| 100                                                                                                                              |       |       |       |       |       |       |        | 4.1    | 3.7    | 3.7    | 100 |  |
| 105                                                                                                                              |       |       |       |       |       |       |        |        | 3.2    | 3.2    | 105 |  |
| 110                                                                                                                              |       |       |       |       |       |       |        |        | 2.8    | 2.7    | 110 |  |
| 115                                                                                                                              |       |       |       |       |       |       |        |        | 2.4    | 2.4    | 115 |  |
| 120                                                                                                                              |       |       |       |       |       |       |        |        |        | 2      | 120 |  |

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**Lifting capacities  
Forces de levage****T**

| <div><div><div><div><div><div></div><div>33 – 131 ft</div></div><div><div><div></div><div>9.85 ft</div></div></div><div><div><div></div><div>n.v. / n.h.</div><div>±10°</div></div></div><div><div><div></div><div>23375 lbs</div></div><div><div><div></div><div>22050 lbs</div></div></div><div><div><div></div><div>75%</div></div></div></div></div></div></div></div> |       |       |       |       |       |       |        |        |        |        |                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|------------------------------------------------|
| <div><div><div></div><div>ft</div></div></div>                                                                                                                                                                                                                                                                                                                             | 33 ft | 45 ft | 56 ft | 67 ft | 78 ft | 90 ft | 101 ft | 112 ft | 123 ft | 131 ft | <div><div><div></div><div>ft</div></div></div> |
| 7                                                                                                                                                                                                                                                                                                                                                                          | 93.3  | 92.4  | 91.5  | 82.6  |       |       |        |        |        |        | 7                                              |
| 8                                                                                                                                                                                                                                                                                                                                                                          | 93.3  | 92.9  | 92    | 83.6  | 65.5  |       |        |        |        |        | 8                                              |
| 9                                                                                                                                                                                                                                                                                                                                                                          | 93.3  | 93    | 92.6  | 83.3  | 66.1  |       |        |        |        |        | 9                                              |
| 10                                                                                                                                                                                                                                                                                                                                                                         | 93.3  | 93.1  | 93.1  | 81.2  | 66.3  | 50.4  |        |        |        |        | 10                                             |
| 11                                                                                                                                                                                                                                                                                                                                                                         | 93.3  | 93.1  | 91.9  | 77.5  | 65.6  | 51    |        |        |        |        | 11                                             |
| 12                                                                                                                                                                                                                                                                                                                                                                         | 93.3  | 93.1  | 90.6  | 74.2  | 63.2  | 51.4  |        |        |        |        | 12                                             |
| 13                                                                                                                                                                                                                                                                                                                                                                         | 93.2  | 92.1  | 86.7  | 71.1  | 60.9  | 51.4  | 41.5   |        |        |        | 13                                             |
| 14                                                                                                                                                                                                                                                                                                                                                                         | 91.9  | 89.3  | 81.8  | 70.4  | 58.8  | 50.3  | 41.8   |        |        |        | 14                                             |
| 15                                                                                                                                                                                                                                                                                                                                                                         | 86.8  | 84.4  | 77.1  | 68.5  | 56.8  | 48.8  | 41.4   | 32.5   |        |        | 15                                             |
| 16                                                                                                                                                                                                                                                                                                                                                                         | 81.9  | 78.4  | 72    | 66.1  | 55    | 47.4  | 40.8   | 32.7   |        |        | 16                                             |
| 17                                                                                                                                                                                                                                                                                                                                                                         | 76.8  | 73.4  | 67.6  | 63.7  | 53.3  | 46    | 39.7   | 32.9   |        |        | 17                                             |
| 18                                                                                                                                                                                                                                                                                                                                                                         | 71.1  | 68    | 63.4  | 60.7  | 51.7  | 44.7  | 38.7   | 33.1   | 25.8   |        | 18                                             |
| 19                                                                                                                                                                                                                                                                                                                                                                         | 64.6  | 63.4  | 59.1  | 56.9  | 50.1  | 43.5  | 37.7   | 33     | 25.8   |        | 19                                             |
| 20                                                                                                                                                                                                                                                                                                                                                                         | 59.2  | 59.3  | 56.3  | 53.5  | 48.7  | 42.4  | 36.8   | 32.9   | 25.9   | 22.1   | 20                                             |
| 22                                                                                                                                                                                                                                                                                                                                                                         | 50.2  | 52    | 50.7  | 47.7  | 44.7  | 40.2  | 35     | 31.7   | 25.8   | 22.2   | 22                                             |
| 24                                                                                                                                                                                                                                                                                                                                                                         | 43.4  | 45.1  | 45.5  | 43    | 40.2  | 38.1  | 33.4   | 30.3   | 25.4   | 22.2   | 24                                             |
| 26                                                                                                                                                                                                                                                                                                                                                                         |       | 39.7  | 40.5  | 39    | 36.6  | 35.7  | 31.9   | 29.1   | 24.9   | 21.9   | 26                                             |
| 28                                                                                                                                                                                                                                                                                                                                                                         |       | 35.4  | 36.1  | 35.6  | 33.6  | 32.9  | 30.2   | 27.9   | 24.3   | 21.5   | 28                                             |
| 30                                                                                                                                                                                                                                                                                                                                                                         |       | 31.8  | 32.4  | 32.4  | 31.1  | 30.4  | 28.6   | 26.7   | 23.6   | 21.1   | 30                                             |
| 32                                                                                                                                                                                                                                                                                                                                                                         |       | 28.8  | 29.5  | 29.4  | 29.5  | 28.2  | 26.7   | 25.3   | 23     | 20.7   | 32                                             |
| 34                                                                                                                                                                                                                                                                                                                                                                         |       | 26.2  | 26.8  | 26.8  | 27.5  | 26.1  | 24.9   | 23.5   | 22.3   | 20.1   | 34                                             |
| 36                                                                                                                                                                                                                                                                                                                                                                         |       | 24    | 24.7  | 24.6  | 25.3  | 24.4  | 23.2   | 22.4   | 21.6   | 19.4   | 36                                             |
| 38                                                                                                                                                                                                                                                                                                                                                                         |       |       | 22.8  | 23.1  | 23.3  | 22.7  | 22.2   | 21.3   | 20.5   | 18.8   | 38                                             |
| 40                                                                                                                                                                                                                                                                                                                                                                         |       |       | 21.2  | 21.8  | 21.6  | 21.2  | 21.1   | 20.2   | 19.2   | 18.2   | 40                                             |
| 45                                                                                                                                                                                                                                                                                                                                                                         |       |       | 17.7  | 18.3  | 18.1  | 18.1  | 18     | 17.5   | 16.5   | 16.2   | 45                                             |
| 50                                                                                                                                                                                                                                                                                                                                                                         |       |       |       | 15.6  | 15.4  | 15.7  | 15.5   | 15.2   | 14.4   | 14.1   | 50                                             |
| 55                                                                                                                                                                                                                                                                                                                                                                         |       |       |       | 13.6  | 13.5  | 13.6  | 13.3   | 13.1   | 12.5   | 12.3   | 55                                             |
| 60                                                                                                                                                                                                                                                                                                                                                                         |       |       |       |       | 11.8  | 11.9  | 11.6   | 11.4   | 11     | 10.8   | 60                                             |
| 65                                                                                                                                                                                                                                                                                                                                                                         |       |       |       |       | 10.4  | 10.2  | 9.9    | 9.7    | 9.2    | 9.2    | 65                                             |
| 70                                                                                                                                                                                                                                                                                                                                                                         |       |       |       |       | 8.9   | 8.9   | 8.6    | 8.4    | 8      | 8.1    | 70                                             |
| 75                                                                                                                                                                                                                                                                                                                                                                         |       |       |       |       |       | 7.9   | 7.6    | 7.4    | 7      | 7.1    | 75                                             |
| 80                                                                                                                                                                                                                                                                                                                                                                         |       |       |       |       |       | 7.1   | 6.8    | 6.6    | 6.2    | 6.2    | 80                                             |
| 85                                                                                                                                                                                                                                                                                                                                                                         |       |       |       |       |       |       | 6.1    | 5.8    | 5.5    | 5.5    | 85                                             |
| 90                                                                                                                                                                                                                                                                                                                                                                         |       |       |       |       |       |       | 5.4    | 5.2    | 4.8    | 4.8    | 90                                             |
| 95                                                                                                                                                                                                                                                                                                                                                                         |       |       |       |       |       |       |        | 4.6    | 4.2    | 4.2    | 95                                             |
| 100                                                                                                                                                                                                                                                                                                                                                                        |       |       |       |       |       |       |        | 4.1    | 3.7    | 3.7    | 100                                            |
| 105                                                                                                                                                                                                                                                                                                                                                                        |       |       |       |       |       |       |        |        | 3.2    | 3.2    | 105                                            |
| 110                                                                                                                                                                                                                                                                                                                                                                        |       |       |       |       |       |       |        |        | 2.8    | 2.8    | 110                                            |
| 115                                                                                                                                                                                                                                                                                                                                                                        |       |       |       |       |       |       |        |        | 2.4    | 2.4    | 115                                            |
| 120                                                                                                                                                                                                                                                                                                                                                                        |       |       |       |       |       |       |        |        |        | 2      | 120                                            |

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## Lifting capacities Forces de levage

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| <div><div><div><div><div><div></div><div>33 – 131 ft</div></div><div><div><div></div><div>T</div></div></div></div><div><div><div></div><div>9.85ft</div></div><div><div><div></div><div>360°</div></div></div><div><div><div></div><div>23375 lbs</div></div><div><div><div></div><div>22050 lbs</div></div></div><div><div><div></div><div>75%</div></div></div></div></div></div></div></div> |       |       |       |       |       |       |        |        |        |        |                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|------------------------------------------------|
| <div><div><div></div><div>ft</div></div></div>                                                                                                                                                                                                                                                                                                                                                   | 33 ft | 45 ft | 56 ft | 67 ft | 78 ft | 90 ft | 101 ft | 112 ft | 123 ft | 131 ft | <div><div><div></div><div>ft</div></div></div> |
| 10                                                                                                                                                                                                                                                                                                                                                                                               | 75.9  | 66.7  | 60.8  | 54.7  |       |       |        |        |        |        | 10                                             |
| 11                                                                                                                                                                                                                                                                                                                                                                                               | 68.1  | 61.7  | 56.5  | 51.6  | 46.3  |       |        |        |        |        | 11                                             |
| 12                                                                                                                                                                                                                                                                                                                                                                                               | 61.4  | 57.6  | 52    | 47.3  | 43.2  |       |        |        |        |        | 12                                             |
| 13                                                                                                                                                                                                                                                                                                                                                                                               | 55.8  | 52.7  | 49.3  | 45.6  | 40    |       |        |        |        |        | 13                                             |
| 14                                                                                                                                                                                                                                                                                                                                                                                               | 51.1  | 48.4  | 45.8  | 42.6  | 39.3  | 35.9  |        |        |        |        | 14                                             |
| 15                                                                                                                                                                                                                                                                                                                                                                                               | 47    | 44.8  | 42.6  | 40.6  | 37.5  | 34.3  |        |        |        |        | 15                                             |
| 16                                                                                                                                                                                                                                                                                                                                                                                               | 43.1  | 41.6  | 39.7  | 38    | 35.6  | 33    | 29.8   |        |        |        | 16                                             |
| 17                                                                                                                                                                                                                                                                                                                                                                                               | 39.5  | 38.8  | 37.1  | 35.7  | 33.7  | 31.1  | 29.9   | 27.1   |        |        | 17                                             |
| 18                                                                                                                                                                                                                                                                                                                                                                                               | 36    | 36.3  | 34.9  | 33.7  | 31.9  | 29.3  | 28.3   | 25.6   |        |        | 18                                             |
| 19                                                                                                                                                                                                                                                                                                                                                                                               | 33.2  | 34    | 32.8  | 31.8  | 30.2  | 28.7  | 27     | 25.5   | 23.8   |        | 19                                             |
| 20                                                                                                                                                                                                                                                                                                                                                                                               | 30.7  | 32    | 31    | 30.1  | 28.6  | 27.3  | 25.7   | 24.2   | 22.6   | 21.9   | 20                                             |
| 22                                                                                                                                                                                                                                                                                                                                                                                               | 26.5  | 27.9  | 27.7  | 27.1  | 25.9  | 24.7  | 23.3   | 22     | 20.6   | 20     | 22                                             |
| 24                                                                                                                                                                                                                                                                                                                                                                                               | 23.2  | 24.6  | 25    | 24.5  | 23.5  | 22.5  | 21.2   | 20.1   | 18.8   | 18.2   | 24                                             |
| 26                                                                                                                                                                                                                                                                                                                                                                                               |       | 21.8  | 22.6  | 22.4  | 21.5  | 20.6  | 19.4   | 18.4   | 17.2   | 16.7   | 26                                             |
| 28                                                                                                                                                                                                                                                                                                                                                                                               |       | 19.5  | 20.2  | 20.5  | 19.7  | 18.9  | 17.9   | 16.9   | 15.8   | 15.4   | 28                                             |
| 30                                                                                                                                                                                                                                                                                                                                                                                               |       | 17.6  | 18.3  | 18.9  | 18.2  | 17.5  | 16.5   | 15.6   | 14.6   | 14.2   | 30                                             |
| 32                                                                                                                                                                                                                                                                                                                                                                                               |       | 15.9  | 16.6  | 17.2  | 16.8  | 16.2  | 15.3   | 14.4   | 13.4   | 13.1   | 32                                             |
| 34                                                                                                                                                                                                                                                                                                                                                                                               |       | 14.5  | 15.1  | 15.8  | 15.6  | 15    | 14.2   | 13.4   | 12.4   | 12.2   | 34                                             |
| 36                                                                                                                                                                                                                                                                                                                                                                                               |       | 13.2  | 13.9  | 14.5  | 14.5  | 14    | 13.2   | 12.4   | 11.5   | 11.3   | 36                                             |
| 38                                                                                                                                                                                                                                                                                                                                                                                               |       |       | 12.8  | 13.4  | 13.4  | 13    | 12.3   | 11.6   | 10.7   | 10.5   | 38                                             |
| 40                                                                                                                                                                                                                                                                                                                                                                                               |       |       | 11.8  | 12.4  | 12.4  | 12.2  | 11.5   | 10.8   | 10     | 9.7    | 40                                             |
| 45                                                                                                                                                                                                                                                                                                                                                                                               |       |       | 9.7   | 10.3  | 10.3  | 10.3  | 9.7    | 9.1    | 8.3    | 8.2    | 45                                             |
| 50                                                                                                                                                                                                                                                                                                                                                                                               |       |       |       | 8.7   | 8.7   | 8.6   | 8.3    | 7.7    | 7      | 6.8    | 50                                             |
| 55                                                                                                                                                                                                                                                                                                                                                                                               |       |       |       | 7.4   | 7.4   | 7.4   | 7.1    | 6.6    | 5.9    | 5.7    | 55                                             |
| 60                                                                                                                                                                                                                                                                                                                                                                                               |       |       |       |       | 6.3   | 6.3   | 6.1    | 5.6    | 4.9    | 4.8    | 60                                             |
| 65                                                                                                                                                                                                                                                                                                                                                                                               |       |       |       |       | 5.4   | 5.4   | 5.1    | 4.8    | 4.1    | 4      | 65                                             |
| 70                                                                                                                                                                                                                                                                                                                                                                                               |       |       |       |       | 4.6   | 4.6   | 4.3    | 4      | 3.4    | 3.3    | 70                                             |
| 75                                                                                                                                                                                                                                                                                                                                                                                               |       |       |       |       |       | 3.9   | 3.6    | 3.4    | 2.8    | 2.7    | 75                                             |
| 80                                                                                                                                                                                                                                                                                                                                                                                               |       |       |       |       |       | 3.4   | 3      | 2.8    | 2.3    | 2.2    | 80                                             |
| 85                                                                                                                                                                                                                                                                                                                                                                                               |       |       |       |       |       |       | 2.5    | 2.3    | 1.8    | 1.7    | 85                                             |
| 90                                                                                                                                                                                                                                                                                                                                                                                               |       |       |       |       |       |       | 2.1    | 1.8    |        |        | 90                                             |

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## Lifting capacities Forces de levage

**T**

| <div> <div>33 - 131 ft</div> <div></div> <div>15.75 ft</div> <div>n.v. / n.h.</div> <div><math>\pm 10^\circ</math></div> <div>12350 lbs</div> <div>22050 lbs</div> <div>75%</div> </div> |       |       |       |       |       |       |        |        |        |        |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-----|
| ft                                                                                                                                                                                                                                                                        | 33 ft | 45 ft | 56 ft | 67 ft | 78 ft | 90 ft | 101 ft | 112 ft | 123 ft | 131 ft | ft  |
| 7                                                                                                                                                                                                                                                                         | 126.5 | 92.4  | 91.5  | 82.6  |       |       |        |        |        |        | 7   |
| 8                                                                                                                                                                                                                                                                         | 124   | 92.9  | 92    | 83.6  | 65.5  |       |        |        |        |        | 8   |
| 9                                                                                                                                                                                                                                                                         | 118.3 | 93    | 92.6  | 84.1  | 66.1  |       |        |        |        |        | 9   |
| 10                                                                                                                                                                                                                                                                        | 112.8 | 93.1  | 93.1  | 84.4  | 66.6  | 50.4  |        |        |        |        | 10  |
| 11                                                                                                                                                                                                                                                                        | 107.2 | 93.1  | 91.6  | 83.5  | 66.7  | 51    |        |        |        |        | 11  |
| 12                                                                                                                                                                                                                                                                        | 101.1 | 90.9  | 85.5  | 77.2  | 66.7  | 51.6  |        |        |        |        | 12  |
| 13                                                                                                                                                                                                                                                                        | 94.6  | 85.8  | 77    | 70.1  | 64.8  | 52.1  | 41.5   |        |        |        | 13  |
| 14                                                                                                                                                                                                                                                                        | 86.5  | 77    | 70.1  | 66.7  | 61.4  | 52.5  | 41.8   |        |        |        | 14  |
| 15                                                                                                                                                                                                                                                                        | 78.1  | 70.4  | 65.8  | 61.9  | 56.7  | 52    | 42.2   | 32.5   |        |        | 15  |
| 16                                                                                                                                                                                                                                                                        | 71.1  | 65.5  | 62.1  | 57.3  | 52.7  | 48.7  | 42.3   | 32.7   |        |        | 16  |
| 17                                                                                                                                                                                                                                                                        | 64.8  | 61.2  | 57.4  | 53.3  | 49.2  | 46.2  | 41.9   | 32.9   |        |        | 17  |
| 18                                                                                                                                                                                                                                                                        | 58.5  | 56.6  | 53.5  | 49.9  | 46    | 43.5  | 40.3   | 33.1   | 25.8   |        | 18  |
| 19                                                                                                                                                                                                                                                                        | 53.1  | 52.7  | 49.9  | 46.7  | 43.5  | 41.5  | 37.9   | 33     | 25.8   |        | 19  |
| 20                                                                                                                                                                                                                                                                        | 48.5  | 49.3  | 46.9  | 43.8  | 40.9  | 39.4  | 36     | 32.8   | 25.9   | 22.1   | 20  |
| 22                                                                                                                                                                                                                                                                        | 41    | 42.7  | 41.5  | 39    | 37.7  | 35.3  | 33.2   | 31.1   | 25.8   | 22.2   | 22  |
| 24                                                                                                                                                                                                                                                                        | 35.3  | 37    | 37.1  | 35    | 34.1  | 31.9  | 30.1   | 28.2   | 25.4   | 22.2   | 24  |
| 26                                                                                                                                                                                                                                                                        |       | 32.4  | 33.2  | 31.7  | 31.1  | 29.1  | 28.1   | 26.7   | 24.9   | 21.9   | 26  |
| 28                                                                                                                                                                                                                                                                        |       | 28.8  | 29.5  | 29.5  | 28.4  | 26.6  | 25.9   | 24.8   | 23.3   | 21.5   | 28  |
| 30                                                                                                                                                                                                                                                                        |       | 25.8  | 26.6  | 27.3  | 26.1  | 24.9  | 24.1   | 22.9   | 21.5   | 20.7   | 30  |
| 32                                                                                                                                                                                                                                                                        |       | 23.3  | 24.1  | 24.7  | 24.1  | 23.5  | 22.3   | 21.2   | 19.9   | 19.5   | 32  |
| 34                                                                                                                                                                                                                                                                        |       | 21.1  | 21.9  | 22.6  | 22.3  | 21.8  | 20.7   | 19.7   | 18.5   | 18.1   | 34  |
| 36                                                                                                                                                                                                                                                                        |       | 19.3  | 20    | 20.7  | 20.5  | 20.3  | 19.3   | 18.3   | 17.2   | 16.8   | 36  |
| 38                                                                                                                                                                                                                                                                        |       |       | 18.4  | 19    | 19.1  | 19    | 18     | 17.1   | 16.1   | 15.7   | 38  |
| 40                                                                                                                                                                                                                                                                        |       |       | 17    | 17.6  | 17.6  | 17.7  | 16.9   | 16     | 15     | 14.7   | 40  |
| 45                                                                                                                                                                                                                                                                        |       |       | 14.1  | 14.7  | 14.7  | 14.8  | 14.4   | 13.7   | 12.7   | 12.5   | 45  |
| 50                                                                                                                                                                                                                                                                        |       |       |       | 12.4  | 12.5  | 12.5  | 12.3   | 11.8   | 10.9   | 10.7   | 50  |
| 55                                                                                                                                                                                                                                                                        |       |       |       | 10.4  | 10.5  | 10.6  | 10.2   | 10     | 9.3    | 9.3    | 55  |
| 60                                                                                                                                                                                                                                                                        |       |       |       |       | 8.7   | 8.8   | 8.5    | 8.3    | 7.9    | 7.9    | 60  |
| 65                                                                                                                                                                                                                                                                        |       |       |       |       | 7.6   | 7.6   | 7.4    | 7.1    | 6.8    | 6.8    | 65  |
| 70                                                                                                                                                                                                                                                                        |       |       |       |       | 6.7   | 6.7   | 6.4    | 6.2    | 5.8    | 5.8    | 70  |
| 75                                                                                                                                                                                                                                                                        |       |       |       |       |       | 5.8   | 5.6    | 5.4    | 5      | 5      | 75  |
| 80                                                                                                                                                                                                                                                                        |       |       |       |       |       | 5.2   | 4.9    | 4.7    | 4.3    | 4.3    | 80  |
| 85                                                                                                                                                                                                                                                                        |       |       |       |       |       |       | 4.3    | 4      | 3.7    | 3.7    | 85  |
| 90                                                                                                                                                                                                                                                                        |       |       |       |       |       |       | 3.8    | 3.5    | 3.1    | 3.1    | 90  |
| 95                                                                                                                                                                                                                                                                        |       |       |       |       |       |       |        | 3      | 2.6    | 2.6    | 95  |
| 100                                                                                                                                                                                                                                                                       |       |       |       |       |       |       |        | 2.6    | 2.1    | 2.1    | 100 |
| 105                                                                                                                                                                                                                                                                       |       |       |       |       |       |       |        |        | 1.7    | 1.7    | 105 |

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## Lifting capacities Forces de levage

**T**

| <div> <div>33 - 131 ft</div> <div>15.75 ft</div> <div>360°</div> <div>12350 lbs</div> <div>22050 lbs</div> <div>75%</div> </div> |       |       |       |       |       |       |        |        |        |        |     |  |
|----------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-----|--|
| ft                                                                                                                               | 33 ft | 45 ft | 56 ft | 67 ft | 78 ft | 90 ft | 101 ft | 112 ft | 123 ft | 131 ft | ft  |  |
| 10                                                                                                                               | 93.3  | 93.1  | 93.1  | 84.4  | 66.6  | 50.4  |        |        |        |        | 10  |  |
| 11                                                                                                                               | 93.3  | 93.1  | 91.4  | 83.2  | 66.7  | 51    |        |        |        |        | 11  |  |
| 12                                                                                                                               | 93.3  | 89.5  | 83.1  | 75.1  | 66.7  | 51.6  |        |        |        |        | 12  |  |
| 13                                                                                                                               | 92.2  | 83.3  | 74.9  | 70    | 64    | 52.1  | 41.5   |        |        |        | 13  |  |
| 14                                                                                                                               | 84    | 74.9  | 69.5  | 65.4  | 59.9  | 51.9  | 41.8   |        |        |        | 14  |  |
| 15                                                                                                                               | 76    | 69.1  | 64.5  | 60.4  | 55.3  | 50.8  | 42.2   | 32.5   |        |        | 15  |  |
| 16                                                                                                                               | 69.2  | 63.8  | 60.6  | 55.9  | 51.4  | 47.7  | 42.1   | 32.7   |        |        | 16  |  |
| 17                                                                                                                               | 63    | 59.7  | 56    | 52    | 48    | 45.2  | 41.2   | 32.9   |        |        | 17  |  |
| 18                                                                                                                               | 57    | 55.2  | 52.2  | 48.7  | 45.3  | 43.2  | 39.4   | 33.1   | 25.8   |        | 18  |  |
| 19                                                                                                                               | 51.7  | 51.5  | 48.7  | 45.6  | 42.5  | 40.7  | 37     | 33     | 25.8   |        | 19  |  |
| 20                                                                                                                               | 47.3  | 48.1  | 45.7  | 42.8  | 40.3  | 38.5  | 35.6   | 32.8   | 25.9   | 22.1   | 20  |  |
| 22                                                                                                                               | 40    | 41.7  | 40.5  | 38.1  | 37.1  | 34.5  | 32.5   | 30.4   | 25.8   | 22.2   | 22  |  |
| 24                                                                                                                               | 34.5  | 36.1  | 36.3  | 34.2  | 33.4  | 31.2  | 29.5   | 27.9   | 25.4   | 22.2   | 24  |  |
| 26                                                                                                                               |       | 31.7  | 32.5  | 31.3  | 30.4  | 28.4  | 27.6   | 26.4   | 24.5   | 21.9   | 26  |  |
| 28                                                                                                                               |       | 28.2  | 28.9  | 29.3  | 27.8  | 26    | 25.4   | 24.2   | 22.8   | 21.5   | 28  |  |
| 30                                                                                                                               |       | 25.2  | 26    | 26.7  | 25.6  | 24.6  | 23.6   | 22.4   | 21     | 20.4   | 30  |  |
| 32                                                                                                                               |       | 22.8  | 23.6  | 24.2  | 23.6  | 23    | 21.8   | 20.7   | 19.5   | 19     | 32  |  |
| 34                                                                                                                               |       | 20.7  | 21.4  | 22.1  | 21.8  | 21.3  | 20.3   | 19.3   | 18.1   | 17.7   | 34  |  |
| 36                                                                                                                               |       | 18.9  | 19.6  | 20.2  | 20.1  | 19.9  | 18.9   | 17.9   | 16.8   | 16.4   | 36  |  |
| 38                                                                                                                               |       |       | 18    | 18.6  | 18.7  | 18.6  | 17.6   | 16.7   | 15.7   | 15.3   | 38  |  |
| 40                                                                                                                               |       |       | 16.6  | 17.3  | 17.3  | 17.3  | 16.5   | 15.6   | 14.6   | 14.3   | 40  |  |
| 45                                                                                                                               |       |       | 13.8  | 14.4  | 14.4  | 14.5  | 14.1   | 13.3   | 12.4   | 12.2   | 45  |  |
| 50                                                                                                                               |       |       |       | 12.2  | 12.2  | 12.2  | 12     | 11.5   | 10.7   | 10.5   | 50  |  |
| 55                                                                                                                               |       |       |       | 10.3  | 10.3  | 10.4  | 10.1   | 9.8    | 9.2    | 9      | 55  |  |
| 60                                                                                                                               |       |       |       |       | 8.7   | 8.8   | 8.5    | 8.3    | 7.9    | 7.8    | 60  |  |
| 65                                                                                                                               |       |       |       |       | 7.6   | 7.6   | 7.4    | 7.1    | 6.8    | 6.7    | 65  |  |
| 70                                                                                                                               |       |       |       |       | 6.7   | 6.7   | 6.4    | 6.2    | 5.8    | 5.8    | 70  |  |
| 75                                                                                                                               |       |       |       |       |       | 5.8   | 5.6    | 5.4    | 5      | 5      | 75  |  |
| 80                                                                                                                               |       |       |       |       |       | 5.2   | 4.9    | 4.7    | 4.3    | 4.3    | 80  |  |
| 85                                                                                                                               |       |       |       |       |       |       | 4.3    | 4      | 3.7    | 3.7    | 85  |  |
| 90                                                                                                                               |       |       |       |       |       |       | 3.8    | 3.5    | 3.1    | 3.1    | 90  |  |
| 95                                                                                                                               |       |       |       |       |       |       |        | 3      | 2.6    | 2.6    | 95  |  |
| 100                                                                                                                              |       |       |       |       |       |       |        | 2.6    | 2.1    | 2.1    | 100 |  |
| 105                                                                                                                              |       |       |       |       |       |       |        |        | 1.7    | 1.7    | 105 |  |

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## Lifting capacities Forces de levage

**T**

| <div> <div>33 - 131 ft</div> <div>  </div> <div>  </div> <div>  </div> <div>  </div> <div>  </div> <div>75%</div> </div> |       |       |       |       |       |       |        |        |        |        |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-----|
| ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 33 ft | 45 ft | 56 ft | 67 ft | 78 ft | 90 ft | 101 ft | 112 ft | 123 ft | 131 ft | ft  |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 93.3  | 92.4  | 91.5  | 79.8  |       |       |        |        |        |        | 7   |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 93.3  | 92.9  | 92    | 76.4  | 63.4  |       |        |        |        |        | 8   |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 93.3  | 93    | 92.6  | 72.6  | 61    |       |        |        |        |        | 9   |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 93.3  | 93.1  | 89.1  | 69.2  | 58.6  | 49.6  |        |        |        |        | 10  |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 93.3  | 93.1  | 84.3  | 68.8  | 56.3  | 48.1  |        |        |        |        | 11  |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 93.3  | 90.9  | 80.1  | 66.1  | 54.2  | 46.5  |        |        |        |        | 12  |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 92.6  | 85.8  | 75.7  | 63.4  | 52.2  | 45    | 38.7   |        |        |        | 13  |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 86.5  | 77    | 70.1  | 60.9  | 50.4  | 43.6  | 37.5   |        |        |        | 14  |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 78.1  | 70.4  | 65.8  | 58.6  | 48.7  | 42.3  | 36.5   | 31.6   |        |        | 15  |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 71.1  | 65.5  | 62.1  | 56.4  | 47.1  | 41    | 35.5   | 31.3   |        |        | 16  |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 64.8  | 61.2  | 57.4  | 53.3  | 45.6  | 39.8  | 34.6   | 30.9   |        |        | 17  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 58.5  | 56.6  | 53.5  | 49.9  | 44.2  | 38.7  | 33.9   | 30.4   | 25.8   |        | 18  |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 53.1  | 52.7  | 49.9  | 46.7  | 42.7  | 37.6  | 33.1   | 29.7   | 25.6   |        | 19  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 48.5  | 49.3  | 46.9  | 43.8  | 40.8  | 36.6  | 32.4   | 29     | 25.4   | 22.1   | 20  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 41    | 42.7  | 41.5  | 39    | 37.7  | 34.8  | 30.9   | 27.7   | 24.5   | 22.2   | 22  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 35.3  | 37    | 37.1  | 35    | 34.1  | 31.9  | 29.5   | 26.5   | 23.4   | 21.8   | 24  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 32.4  | 33.2  | 31.7  | 31.1  | 29.1  | 28.1   | 25.4   | 22.5   | 21     | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 28.8  | 29.5  | 29.5  | 28.4  | 26.6  | 25.9   | 24.3   | 21.6   | 20.2   | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 25.8  | 26.6  | 27.3  | 26.1  | 24.9  | 24.1   | 22.9   | 20.7   | 19.4   | 30  |
| 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 23.3  | 24.1  | 24.7  | 24.1  | 23.5  | 22.3   | 21.2   | 19.7   | 18.7   | 32  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 21.1  | 21.9  | 22.6  | 22.3  | 21.8  | 20.7   | 19.7   | 18.5   | 17.9   | 34  |
| 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 19.3  | 20    | 20.7  | 20.5  | 20.3  | 19.3   | 18.3   | 17.2   | 16.8   | 36  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       | 18.4  | 19    | 19.1  | 19    | 18     | 17.1   | 16.1   | 15.7   | 38  |
| 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       | 17    | 17.6  | 17.6  | 17.7  | 16.9   | 16     | 15     | 14.7   | 40  |
| 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       | 14.1  | 14.7  | 14.7  | 14.8  | 14.4   | 13.7   | 12.7   | 12.5   | 45  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       | 12.4  | 12.5  | 12.5  | 12.3   | 11.8   | 10.9   | 10.7   | 50  |
| 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       | 10.4  | 10.5  | 10.6  | 10.2   | 10     | 9.3    | 9.3    | 55  |
| 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       |       | 8.7   | 8.8   | 8.5    | 8.3    | 7.9    | 7.9    | 60  |
| 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       |       | 7.6   | 7.6   | 7.4    | 7.1    | 6.8    | 6.8    | 65  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       |       | 6.7   | 6.7   | 6.4    | 6.2    | 5.8    | 5.8    | 70  |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       |       |       | 5.8   | 5.6    | 5.4    | 5      | 5      | 75  |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       |       |       | 5.2   | 4.9    | 4.7    | 4.3    | 4.3    | 80  |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       |       |       |       | 4.3    | 4      | 3.7    | 3.7    | 85  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       |       |       |       | 3.8    | 3.5    | 3.1    | 3.1    | 90  |
| 95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       |       |       |       |        | 3      | 2.6    | 2.6    | 95  |
| 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |       |       |       |       |       |        | 2.6    | 2.1    | 2.1    | 100 |
| 105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |       |       |       |       |       |        |        | 1.7    | 1.7    | 105 |

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## Lifting capacities Forces de levage

**T**

| <div> <div>33 - 131 ft</div> <div>9.85 ft</div> <div>360°</div> <div>12350 lbs</div> <div>22050 lbs</div> <div>75%</div> </div> |       |       |       |       |       |       |        |        |        |        |    |  |
|---------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|----|--|
| ft                                                                                                                              | 33 ft | 45 ft | 56 ft | 67 ft | 78 ft | 90 ft | 101 ft | 112 ft | 123 ft | 131 ft | ft |  |
| 10                                                                                                                              | 60    | 55.6  | 51.2  | 47.8  | 43.7  | 39.6  |        |        |        |        | 10 |  |
| 11                                                                                                                              | 53.4  | 50    | 46.4  | 43.6  | 40.4  | 37.6  |        |        |        |        | 11 |  |
| 12                                                                                                                              | 48    | 45.4  | 42.4  | 40    | 37.3  | 34.8  |        |        |        |        | 12 |  |
| 13                                                                                                                              | 43.5  | 41.3  | 38.9  | 37    | 34.6  | 32.4  | 30.1   |        |        |        | 13 |  |
| 14                                                                                                                              | 39.7  | 37.9  | 36    | 34.3  | 32.2  | 30.3  | 28.1   |        |        |        | 14 |  |
| 15                                                                                                                              | 36.4  | 35    | 33.4  | 31.9  | 30    | 28.3  | 26.4   | 24.6   |        |        | 15 |  |
| 16                                                                                                                              | 33.5  | 32.4  | 31    | 29.8  | 28.1  | 26.6  | 24.8   | 23.1   |        |        | 16 |  |
| 17                                                                                                                              | 30.7  | 30.1  | 28.9  | 28    | 26.4  | 25    | 23.4   | 21.8   |        |        | 17 |  |
| 18                                                                                                                              | 28    | 28    | 27.1  | 26.3  | 24.9  | 23.6  | 22.1   | 20.6   | 19.1   |        | 18 |  |
| 19                                                                                                                              | 25.7  | 26.2  | 25.4  | 24.8  | 23.4  | 22.3  | 20.8   | 19.5   | 18.1   |        | 19 |  |
| 20                                                                                                                              | 23.7  | 24.6  | 23.9  | 23.4  | 22.2  | 21.1  | 19.8   | 18.5   | 17.1   | 16.6   | 20 |  |
| 22                                                                                                                              | 20.3  | 21.7  | 21.3  | 20.9  | 20    | 19    | 17.8   | 16.7   | 15.4   | 15     | 22 |  |
| 24                                                                                                                              | 17.6  | 19    | 19.1  | 18.8  | 18    | 17.2  | 16.1   | 15.1   | 14     | 13.6   | 24 |  |
| 26                                                                                                                              |       | 16.7  | 17.2  | 17.1  | 16.4  | 15.7  | 14.7   | 13.7   | 12.7   | 12.3   | 26 |  |
| 28                                                                                                                              |       | 14.8  | 15.5  | 15.6  | 14.9  | 14.3  | 13.4   | 12.5   | 11.5   | 11.2   | 28 |  |
| 30                                                                                                                              |       | 13.3  | 13.9  | 14.2  | 13.7  | 13.1  | 12.3   | 11.5   | 10.5   | 10.2   | 30 |  |
| 32                                                                                                                              |       | 11.9  | 12.6  | 13    | 12.5  | 12.1  | 11.2   | 10.5   | 9.6    | 9.4    | 32 |  |
| 34                                                                                                                              |       | 10.8  | 11.4  | 12    | 11.5  | 11.1  | 10.4   | 9.7    | 8.8    | 8.6    | 34 |  |
| 36                                                                                                                              |       | 9.7   | 10.4  | 11    | 10.6  | 10.2  | 9.5    | 8.9    | 8.1    | 7.9    | 36 |  |
| 38                                                                                                                              |       |       | 9.5   | 10.1  | 9.8   | 9.5   | 8.8    | 8.2    | 7.4    | 7.2    | 38 |  |
| 40                                                                                                                              |       |       | 8.7   | 9.3   | 9.1   | 8.8   | 8.1    | 7.5    | 6.8    | 6.6    | 40 |  |
| 45                                                                                                                              |       |       | 7     | 7.6   | 7.5   | 7.3   | 6.7    | 6.2    | 5.5    | 5.3    | 45 |  |
| 50                                                                                                                              |       |       |       | 6.2   | 6.2   | 6.1   | 5.5    | 5      | 4.4    | 4.3    | 50 |  |
| 55                                                                                                                              |       |       |       | 5.1   | 5.1   | 5.1   | 4.6    | 4.1    | 3.5    | 3.4    | 55 |  |
| 60                                                                                                                              |       |       |       |       | 4.2   | 4.2   | 3.8    | 3.3    | 2.7    | 2.6    | 60 |  |
| 65                                                                                                                              |       |       |       |       | 3.4   | 3.4   | 3.1    | 2.6    | 2      | 1.9    | 65 |  |
| 70                                                                                                                              |       |       |       |       | 2.8   | 2.8   | 2.5    | 2      |        |        | 70 |  |
| 75                                                                                                                              |       |       |       |       |       | 2.2   | 1.9    |        |        |        | 75 |  |
| 80                                                                                                                              |       |       |       |       |       | 1.8   |        |        |        |        | 80 |  |

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## Lifting capacities Forces de levage

**T**

| <div> <div>33 - 131 ft</div> <div> T</div> <div> 15.75 ft</div> <div> n.v. / n.h.<br/>±10°</div> <div> 1325 lbs</div> <div> 22050 lbs</div> <div>75%</div> </div> |       |       |       |       |       |       |        |        |        |        |                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|----------------------------------------------------------------------------------------|
|  ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 33 ft | 45 ft | 56 ft | 67 ft | 78 ft | 90 ft | 101 ft | 112 ft | 123 ft | 131 ft |  ft |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 126.5 | 92.4  | 91.5  | 82.6  |       |       |        |        |        |        | 7                                                                                      |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 125.5 | 92.9  | 92    | 83.6  | 65.5  |       |        |        |        |        | 8                                                                                      |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 119.3 | 93    | 92.6  | 82.1  | 66.1  |       |        |        |        |        | 9                                                                                      |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 112.8 | 91.7  | 86    | 76.3  | 65.8  | 50.4  |        |        |        |        | 10                                                                                     |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 99.5  | 84.8  | 75.6  | 68.6  | 63.6  | 51    |        |        |        |        | 11                                                                                     |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 86.4  | 75.9  | 69.4  | 64    | 57.7  | 50.7  |        |        |        |        | 12                                                                                     |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 76.2  | 69.3  | 63.9  | 58.1  | 52.9  | 48.6  | 41.2   |        |        |        | 13                                                                                     |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 68    | 62.7  | 58.2  | 53.1  | 48.7  | 45.9  | 41     |        |        |        | 14                                                                                     |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 61.2  | 57.1  | 53.3  | 48.8  | 46.3  | 42.4  | 38.4   | 32.5   |        |        | 15                                                                                     |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 55.6  | 52.3  | 49    | 45.1  | 43    | 39.5  | 36.7   | 32.7   |        |        | 16                                                                                     |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 50.7  | 48    | 45.2  | 41.8  | 40.1  | 36.9  | 34.6   | 31.3   |        |        | 17                                                                                     |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 45.9  | 44.3  | 42    | 39.7  | 37.5  | 34.6  | 33.1   | 30.6   | 25.8   |        | 18                                                                                     |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 41.5  | 41.2  | 39    | 37.5  | 35.2  | 32.9  | 31.4   | 29.2   | 25.7   |        | 19                                                                                     |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 37.8  | 38.4  | 36.6  | 35.4  | 33.1  | 31.5  | 29.7   | 27.8   | 25.5   | 22.1   | 20                                                                                     |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 31.8  | 33.5  | 32.4  | 31.4  | 29.6  | 28.4  | 26.6   | 25     | 23.3   | 22.1   | 22                                                                                     |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 27.2  | 28.9  | 28.9  | 28.2  | 26.8  | 25.6  | 24.1   | 22.7   | 21.1   | 20.4   | 24                                                                                     |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | 25.2  | 25.9  | 25.4  | 24.3  | 23.3  | 21.9   | 20.6   | 19.2   | 18.7   | 26                                                                                     |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | 22.2  | 23.1  | 23.1  | 22.2  | 21.2  | 20     | 18.8   | 17.6   | 17.1   | 28                                                                                     |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | 19.8  | 20.6  | 21.1  | 20.3  | 19.5  | 18.4   | 17.3   | 16.1   | 15.7   | 30                                                                                     |
| 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | 17.7  | 18.6  | 19.2  | 18.7  | 17.9  | 16.9   | 15.9   | 14.8   | 14.4   | 32                                                                                     |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | 15.8  | 16.6  | 17.4  | 17.2  | 16.5  | 15.6   | 14.7   | 13.6   | 13.3   | 34                                                                                     |
| 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       | 14.3  | 15.1  | 15.8  | 15.9  | 15.3  | 14.4   | 13.6   | 12.6   | 12.3   | 36                                                                                     |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       | 13.8  | 14.4  | 14.5  | 14.3  | 13.4   | 12.6   | 11.7   | 11.4   | 38                                                                                     |
| 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       | 12.6  | 13.3  | 13.3  | 13.3  | 12.5   | 11.7   | 10.8   | 10.6   | 40                                                                                     |
| 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       | 9.8   | 10.8  | 10.7  | 10.8  | 10.4   | 9.8    | 9      | 8.8    | 45                                                                                     |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       |       | 8.6   | 8.6   | 8.6   | 8.4    | 8.1    | 7.5    | 7.3    | 50                                                                                     |
| 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       |       | 7.2   | 7.2   | 7.3   | 7      | 6.8    | 6.3    | 6.2    | 55                                                                                     |
| 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       |       |       | 6.1   | 6.1   | 5.9    | 5.6    | 5.3    | 5.1    | 60                                                                                     |
| 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       |       |       | 5.2   | 5.2   | 5      | 4.7    | 4.4    | 4.3    | 65                                                                                     |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       |       |       | 4.5   | 4.4   | 4.2    | 4      | 3.6    | 3.6    | 70                                                                                     |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       |       |       |       | 3.8   | 3.5    | 3.3    | 2.9    | 2.9    | 75                                                                                     |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       |       |       |       | 3.2   | 3      | 2.7    | 2.3    | 2.3    | 80                                                                                     |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       |       |       |       |       | 2.5    | 2.2    | 1.8    | 1.8    | 85                                                                                     |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       |       |       |       |       | 2      | 1.8    |        |        | 90                                                                                     |

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## Lifting capacities Forces de levage

**T**

| <div> <div>33 - 131 ft</div> <div>15.75 ft</div> <div>360°</div> <div>1325 lbs</div> <div>22050 lbs</div> <div>75%</div> </div> |       |       |       |       |       |       |        |        |        |        |    |  |
|---------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|----|--|
| ft                                                                                                                              | 33 ft | 45 ft | 56 ft | 67 ft | 78 ft | 90 ft | 101 ft | 112 ft | 123 ft | 131 ft | ft |  |
| 10                                                                                                                              | 93.3  | 91.3  | 83.2  | 73.8  | 65.3  | 50.4  |        |        |        |        | 10 |  |
| 11                                                                                                                              | 93.2  | 82.5  | 73.2  | 68.4  | 61.7  | 51    |        |        |        |        | 11 |  |
| 12                                                                                                                              | 83.5  | 73.5  | 68.8  | 62.2  | 56.1  | 50.5  |        |        |        |        | 12 |  |
| 13                                                                                                                              | 73.7  | 67.8  | 62.1  | 56.5  | 51.6  | 47.6  | 40.7   |        |        |        | 13 |  |
| 14                                                                                                                              | 65.9  | 60.9  | 56.6  | 51.7  | 47.8  | 44.7  | 39.8   |        |        |        | 14 |  |
| 15                                                                                                                              | 59.4  | 55.5  | 51.8  | 47.5  | 45.1  | 41.3  | 37.8   | 32.5   |        |        | 15 |  |
| 16                                                                                                                              | 53.9  | 50.8  | 47.6  | 43.9  | 41.9  | 38.5  | 35.7   | 32.7   |        |        | 16 |  |
| 17                                                                                                                              | 49.2  | 46.7  | 44    | 41.4  | 39.1  | 36    | 34     | 30.9   |        |        | 17 |  |
| 18                                                                                                                              | 44.6  | 43.1  | 40.9  | 39.3  | 36.6  | 33.8  | 32.3   | 30.4   | 25.8   |        | 18 |  |
| 19                                                                                                                              | 40.3  | 40.1  | 38.2  | 36.8  | 34.3  | 32.5  | 30.6   | 28.7   | 25.4   |        | 19 |  |
| 20                                                                                                                              | 36.8  | 37.4  | 35.8  | 34.5  | 32.2  | 30.9  | 29     | 27.1   | 25     | 22.1   | 20 |  |
| 22                                                                                                                              | 30.9  | 32.6  | 31.6  | 30.7  | 28.8  | 27.7  | 26     | 24.4   | 22.7   | 22     | 22 |  |
| 24                                                                                                                              | 26.5  | 28.1  | 28.2  | 27.5  | 26.2  | 25    | 23.5   | 22.1   | 20.6   | 20     | 24 |  |
| 26                                                                                                                              |       | 24.6  | 25.3  | 24.8  | 23.7  | 22.7  | 21.3   | 20.1   | 18.7   | 18.2   | 26 |  |
| 28                                                                                                                              |       | 21.7  | 22.5  | 22.6  | 21.6  | 20.7  | 19.5   | 18.4   | 17.1   | 16.6   | 28 |  |
| 30                                                                                                                              |       | 19.3  | 20.1  | 20.6  | 19.8  | 19    | 17.9   | 16.8   | 15.7   | 15.3   | 30 |  |
| 32                                                                                                                              |       | 17.3  | 18.1  | 18.8  | 18.2  | 17.5  | 16.5   | 15.5   | 14.4   | 14     | 32 |  |
| 34                                                                                                                              |       | 15.6  | 16.3  | 17.1  | 16.8  | 16.1  | 15.2   | 14.3   | 13.3   | 12.9   | 34 |  |
| 36                                                                                                                              |       | 14.2  | 14.9  | 15.6  | 15.5  | 15    | 14.1   | 13.2   | 12.2   | 12     | 36 |  |
| 38                                                                                                                              |       |       | 13.6  | 14.3  | 14.3  | 13.9  | 13.1   | 12.3   | 11.4   | 11.1   | 38 |  |
| 40                                                                                                                              |       |       | 12.5  | 13.1  | 13.2  | 12.9  | 12.1   | 11.4   | 10.5   | 10.2   | 40 |  |
| 45                                                                                                                              |       |       | 9.8   | 10.8  | 10.7  | 10.7  | 10.2   | 9.5    | 8.7    | 8.5    | 45 |  |
| 50                                                                                                                              |       |       |       | 8.6   | 8.6   | 8.6   | 8.4    | 8      | 7.3    | 7.1    | 50 |  |
| 55                                                                                                                              |       |       |       | 7.2   | 7.2   | 7.3   | 7      | 6.8    | 6.1    | 5.9    | 55 |  |
| 60                                                                                                                              |       |       |       |       | 6.1   | 6.1   | 5.9    | 5.6    | 5.1    | 4.9    | 60 |  |
| 65                                                                                                                              |       |       |       |       | 5.2   | 5.2   | 5      | 4.7    | 4.2    | 4.1    | 65 |  |
| 70                                                                                                                              |       |       |       |       | 4.5   | 4.4   | 4.2    | 4      | 3.5    | 3.4    | 70 |  |
| 75                                                                                                                              |       |       |       |       |       | 3.8   | 3.5    | 3.3    | 2.8    | 2.7    | 75 |  |
| 80                                                                                                                              |       |       |       |       |       | 3.2   | 3      | 2.7    | 2.3    | 2.2    | 80 |  |
| 85                                                                                                                              |       |       |       |       |       |       | 2.5    | 2.2    | 1.8    | 1.7    | 85 |  |
| 90                                                                                                                              |       |       |       |       |       |       | 2      | 1.8    |        |        | 90 |  |

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## Lifting capacities Forces de levage

**T**

| <div><div>ft</div><div>33 – 131 ft</div><div>9.85 ft</div><div>n.v. / n.h.</div><div>1325 lbs</div><div>22050 lbs</div><div>75%</div><div><div>ft</div></div></div> |       |       |       |       |       |       |        |        |        |        |    |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|----|--|--|
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 33 ft | 45 ft | 56 ft | 67 ft | 78 ft | 90 ft | 101 ft | 112 ft | 123 ft | 131 ft | 7  |  |  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 93.3  | 92.4  | 88.8  | 68.1  |       |       |        |        |        |        | 8  |  |  |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 93.3  | 92.9  | 83.7  | 66.5  | 54.3  |       |        |        |        |        | 9  |  |  |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 93.3  | 93    | 78.6  | 63.2  | 52.1  |       |        |        |        |        | 10 |  |  |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 93.3  | 91.7  | 74    | 60.2  | 50    | 41.2  |        |        |        |        | 11 |  |  |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 93.2  | 84.8  | 70.2  | 57.5  | 48    | 40.9  |        |        |        |        | 12 |  |  |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 86.4  | 75.9  | 69.4  | 55    | 46.2  | 39.5  |        |        |        |        | 13 |  |  |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 76.2  | 69.3  | 63.9  | 52.7  | 44.6  | 38.3  | 32.8   |        |        |        | 14 |  |  |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 68    | 62.7  | 58.2  | 50.6  | 43    | 37.1  | 31.8   |        |        |        | 15 |  |  |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 61.2  | 57.1  | 53.3  | 48.3  | 41.5  | 35.9  | 30.9   | 26.9   |        |        | 16 |  |  |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 55.6  | 52.3  | 49    | 45.1  | 40.2  | 34.8  | 30     | 26.2   |        |        | 17 |  |  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 50.7  | 48    | 45.2  | 41.8  | 38.9  | 33.8  | 29.2   | 25.5   |        |        | 18 |  |  |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 45.9  | 44.3  | 42    | 39.7  | 37.2  | 32.8  | 28.5   | 24.8   | 21.6   |        | 19 |  |  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 41.5  | 41.2  | 39    | 37.5  | 35.2  | 31.9  | 27.7   | 24.2   | 21.1   |        | 20 |  |  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 37.8  | 38.4  | 36.6  | 35.4  | 33.1  | 31    | 27     | 23.6   | 20.6   | 19.1   | 22 |  |  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 31.8  | 33.5  | 32.4  | 31.4  | 29.6  | 28.4  | 25.7   | 22.5   | 19.7   | 18.3   | 24 |  |  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 27.2  | 28.9  | 28.9  | 28.2  | 26.8  | 25.6  | 24     | 21.5   | 18.8   | 17.5   | 26 |  |  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 25.2  | 25.9  | 25.4  | 24.3  | 23.3  | 21.9   | 20.4   | 18     | 16.8   | 28 |  |  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 22.2  | 23.1  | 23.1  | 22.2  | 21.2  | 20     | 18.8   | 17.2   | 16.1   | 30 |  |  |
| 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 19.8  | 20.6  | 21.1  | 20.3  | 19.5  | 18.4   | 17.3   | 16.1   | 15.4   | 32 |  |  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 17.7  | 18.6  | 19.2  | 18.7  | 17.9  | 16.9   | 15.9   | 14.8   | 14.4   | 34 |  |  |
| 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 15.8  | 16.6  | 17.4  | 17.2  | 16.5  | 15.6   | 14.7   | 13.6   | 13.3   | 36 |  |  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       | 14.3  | 15.1  | 15.8  | 15.9  | 15.3  | 14.4   | 13.6   | 12.6   | 12.3   | 38 |  |  |
| 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       | 13.8  | 14.4  | 14.5  | 14.3  | 13.4   | 12.6   | 11.7   | 11.4   | 40 |  |  |
| 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       | 12.6  | 13.3  | 13.3  | 13.3  | 12.5   | 11.7   | 10.8   | 10.6   | 45 |  |  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       | 9.8   | 10.8  | 10.7  | 10.8  | 10.4   | 9.8    | 9      | 8.8    | 50 |  |  |
| 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       | 8.6   | 8.6   | 8.6   | 8.4    | 8.1    | 7.5    | 7.3    | 55 |  |  |
| 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       | 7.2   | 7.2   | 7.3   | 7      | 6.8    | 6.3    | 6.2    | 60 |  |  |
| 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       |       | 6.1   | 6.1   | 5.9    | 5.6    | 5.3    | 5.1    | 65 |  |  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       |       | 5.2   | 5.2   | 5      | 4.7    | 4.4    | 4.3    | 70 |  |  |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       |       | 4.5   | 4.4   | 4.2    | 4      | 3.6    | 3.6    | 75 |  |  |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       |       |       | 3.8   | 3.5    | 3.3    | 2.9    | 2.9    | 80 |  |  |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       |       |       | 3.2   | 3      | 2.7    | 2.3    | 2.3    | 85 |  |  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       |       |       |       | 2.5    | 2.2    | 1.8    | 1.8    | 90 |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |       |       |       |       |       | 2      | 1.8    |        |        | 90 |  |  |

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## Lifting capacities Forces de levage

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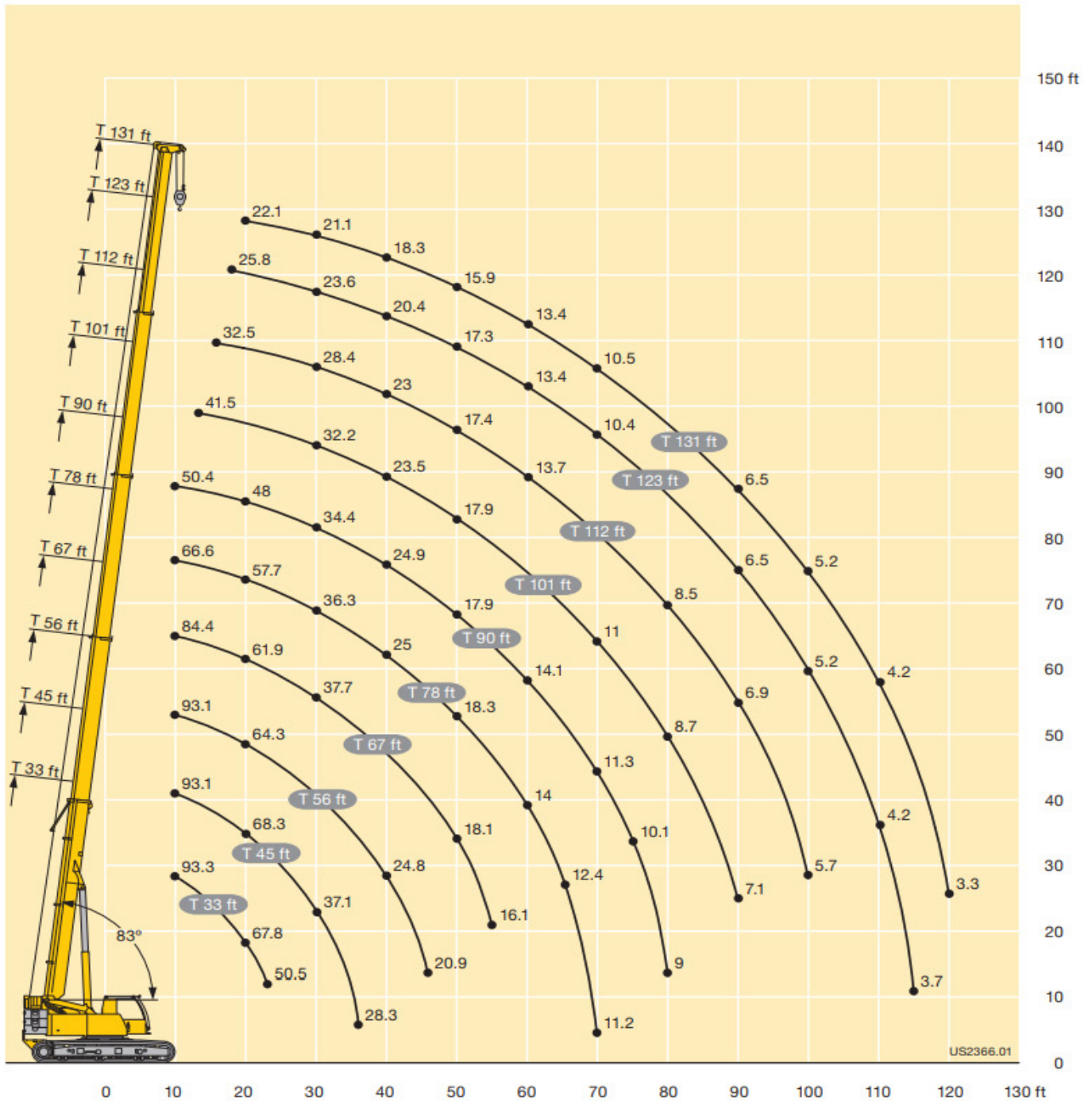
| <div> <div>33 - 131 ft</div> <div>9.85 ft</div> <div>360°</div> <div>1325 lbs</div> <div>22050 lbs</div> <div>75%</div> </div> |       |       |       |       |       |       |        |        |        |        |    |  |
|--------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|----|--|
| ft                                                                                                                             | 33 ft | 45 ft | 56 ft | 67 ft | 78 ft | 90 ft | 101 ft | 112 ft | 123 ft | 131 ft | ft |  |
| 10                                                                                                                             | 43.8  | 40.9  | 37.9  | 35.5  | 32.6  | 29    |        |        |        |        | 10 |  |
| 11                                                                                                                             | 38.8  | 36.6  | 34.2  | 32.3  | 29.8  | 27.7  |        |        |        |        | 11 |  |
| 12                                                                                                                             | 34.6  | 33.1  | 31.1  | 29.5  | 27.4  | 25.5  |        |        |        |        | 12 |  |
| 13                                                                                                                             | 31.2  | 30    | 28.4  | 27.1  | 25.3  | 23.6  | 21.8   |        |        |        | 13 |  |
| 14                                                                                                                             | 28.2  | 27.3  | 26.1  | 25.1  | 23.5  | 22    | 20.2   |        |        |        | 14 |  |
| 15                                                                                                                             | 25.7  | 25.1  | 24.1  | 23.3  | 21.8  | 20.5  | 18.9   | 17.5   |        |        | 15 |  |
| 16                                                                                                                             | 23.5  | 23.1  | 22.3  | 21.6  | 20.3  | 19.1  | 17.7   | 16.3   |        |        | 16 |  |
| 17                                                                                                                             | 21.6  | 21.4  | 20.7  | 20.2  | 19    | 17.9  | 16.6   | 15.3   |        |        | 17 |  |
| 18                                                                                                                             | 19.9  | 19.8  | 19.3  | 18.9  | 17.8  | 16.8  | 15.6   | 14.4   | 13.1   |        | 18 |  |
| 19                                                                                                                             | 18.2  | 18.4  | 18    | 17.7  | 16.7  | 15.8  | 14.6   | 13.5   | 12.3   |        | 19 |  |
| 20                                                                                                                             | 16.6  | 17.1  | 16.8  | 16.6  | 15.7  | 14.9  | 13.8   | 12.7   | 11.6   | 11.1   | 20 |  |
| 22                                                                                                                             | 14    | 15    | 14.8  | 14.7  | 14    | 13.3  | 12.3   | 11.3   | 10.3   | 9.9    | 22 |  |
| 24                                                                                                                             | 11.9  | 13.2  | 13.1  | 13.1  | 12.5  | 11.9  | 11     | 10.1   | 9.1    | 8.8    | 24 |  |
| 26                                                                                                                             |       | 11.6  | 11.7  | 11.8  | 11.2  | 10.7  | 9.8    | 9.1    | 8.1    | 7.9    | 26 |  |
| 28                                                                                                                             |       | 10.2  | 10.4  | 10.6  | 10.1  | 9.6   | 8.9    | 8.1    | 7.3    | 7      | 28 |  |
| 30                                                                                                                             |       | 8.9   | 9.3   | 9.5   | 9.1   | 8.7   | 8      | 7.3    | 6.5    | 6.3    | 30 |  |
| 32                                                                                                                             |       | 7.9   | 8.4   | 8.6   | 8.3   | 7.9   | 7.2    | 6.6    | 5.8    | 5.6    | 32 |  |
| 34                                                                                                                             |       | 6.9   | 7.5   | 7.8   | 7.5   | 7.2   | 6.5    | 5.9    | 5.2    | 5      | 34 |  |
| 36                                                                                                                             |       | 6.1   | 6.8   | 7.1   | 6.8   | 6.5   | 5.9    | 5.3    | 4.6    | 4.4    | 36 |  |
| 38                                                                                                                             |       |       | 6     | 6.5   | 6.2   | 5.9   | 5.3    | 4.8    | 4.1    | 3.9    | 38 |  |
| 40                                                                                                                             |       |       | 5.4   | 5.9   | 5.6   | 5.4   | 4.8    | 4.3    | 3.6    | 3.5    | 40 |  |
| 45                                                                                                                             |       |       | 4     | 4.7   | 4.4   | 4.2   | 3.7    | 3.2    | 2.5    | 2.3    | 45 |  |
| 50                                                                                                                             |       |       |       | 3.6   | 3.5   | 3.3   | 2.8    | 2.2    |        |        | 50 |  |
| 55                                                                                                                             |       |       |       | 2.7   | 2.7   | 2.5   | 1.9    |        |        |        | 55 |  |
| 60                                                                                                                             |       |       |       |       | 1.9   | 1.7   |        |        |        |        | 60 |  |

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**Lifting heights  
Hauteurs de levage**

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## Lifting capacities Forces de levage

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|                                                                                   |       |  33 – 131 ft |      |       |  31 ft<br>15.75 ft |      |        |  360° |      |        |  34400 lbs |      |        |  22050 lbs |      |        |  75% |      |                                                                                     |     |  |
|-----------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------|------|-------|-----------------------------------------------------------------------------------------------------|------|--------|----------------------------------------------------------------------------------------|------|--------|---------------------------------------------------------------------------------------------|------|--------|---------------------------------------------------------------------------------------------|------|--------|---------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|-----|--|
|  | 33 ft |                                                                                               |      | 90 ft |                                                                                                     |      | 101 ft |                                                                                        |      | 112 ft |                                                                                             |      | 123 ft |                                                                                             |      | 131 ft |                                                                                       |      |  |     |  |
|                                                                                   | 31 ft |                                                                                               |      | 31 ft |                                                                                                     |      | 31 ft  |                                                                                        |      | 31 ft  |                                                                                             |      | 31 ft  |                                                                                             |      | 31 ft  |                                                                                       |      |                                                                                     |     |  |
|                                                                                   | 0°    | 20°                                                                                           | 40°  | 0°    | 20°                                                                                                 | 40°  | 0°     | 20°                                                                                    | 40°  | 0°     | 20°                                                                                         | 40°  | 0°     | 20°                                                                                         | 40°  | 0°     | 20°                                                                                   | 40°  |                                                                                     |     |  |
| 9                                                                                 | 17.6  |                                                                                               |      |       |                                                                                                     |      |        |                                                                                        |      |        |                                                                                             |      |        |                                                                                             |      |        |                                                                                       |      | 9                                                                                   |     |  |
| 10                                                                                | 17.4  |                                                                                               |      |       |                                                                                                     |      |        |                                                                                        |      |        |                                                                                             |      |        |                                                                                             |      |        |                                                                                       |      | 10                                                                                  |     |  |
| 11                                                                                | 17.1  |                                                                                               |      |       |                                                                                                     |      |        |                                                                                        |      |        |                                                                                             |      |        |                                                                                             |      |        |                                                                                       |      | 11                                                                                  |     |  |
| 12                                                                                | 16.7  |                                                                                               |      |       |                                                                                                     |      |        |                                                                                        |      |        |                                                                                             |      |        |                                                                                             |      |        |                                                                                       |      | 12                                                                                  |     |  |
| 13                                                                                | 16.3  |                                                                                               |      |       |                                                                                                     |      |        |                                                                                        |      |        |                                                                                             |      |        |                                                                                             |      |        |                                                                                       |      | 13                                                                                  |     |  |
| 14                                                                                | 15.9  |                                                                                               |      |       | 18.5                                                                                                |      |        |                                                                                        |      |        |                                                                                             |      |        |                                                                                             |      |        |                                                                                       |      | 14                                                                                  |     |  |
| 15                                                                                | 15.5  |                                                                                               |      |       | 18.5                                                                                                |      |        |                                                                                        |      |        |                                                                                             |      |        |                                                                                             |      |        |                                                                                       |      | 15                                                                                  |     |  |
| 16                                                                                | 15.1  | 14.8                                                                                          |      |       | 18.5                                                                                                |      |        |                                                                                        |      |        |                                                                                             |      |        |                                                                                             |      |        |                                                                                       |      | 16                                                                                  |     |  |
| 17                                                                                | 14.8  | 14.7                                                                                          |      |       | 18.5                                                                                                |      |        |                                                                                        |      |        |                                                                                             |      |        |                                                                                             |      |        |                                                                                       |      | 17                                                                                  |     |  |
| 18                                                                                | 14.4  | 14.5                                                                                          |      |       | 18.5                                                                                                |      |        | 18.5                                                                                   |      |        |                                                                                             |      |        |                                                                                             |      |        |                                                                                       |      | 18                                                                                  |     |  |
| 20                                                                                | 13.7  | 14.2                                                                                          |      |       | 18.4                                                                                                |      |        | 18.5                                                                                   |      |        |                                                                                             |      |        |                                                                                             |      |        |                                                                                       |      | 20                                                                                  |     |  |
| 22                                                                                | 13    | 13.7                                                                                          | 11.5 |       | 18.1                                                                                                |      |        | 18.4                                                                                   |      |        | 16.1                                                                                        |      |        |                                                                                             |      |        |                                                                                       |      | 22                                                                                  |     |  |
| 24                                                                                | 12.3  | 13.2                                                                                          | 11.5 |       | 17.7                                                                                                |      |        | 18.2                                                                                   |      |        | 16                                                                                          |      |        |                                                                                             |      |        |                                                                                       |      | 24                                                                                  |     |  |
| 26                                                                                | 11.6  | 12.7                                                                                          | 11.4 | 17.3  | 14.8                                                                                                |      |        | 17.8                                                                                   |      |        | 15.9                                                                                        |      |        | 13.4                                                                                        |      |        | 12.1                                                                                  |      | 26                                                                                  |     |  |
| 28                                                                                | 10.9  | 12.1                                                                                          | 11.3 | 16.9  | 14.8                                                                                                |      |        | 17.5                                                                                   | 14.8 |        | 15.8                                                                                        |      |        | 13.4                                                                                        |      |        | 12.1                                                                                  |      | 28                                                                                  |     |  |
| 30                                                                                | 10.2  | 11.6                                                                                          | 11.1 | 16.5  | 14.8                                                                                                |      |        | 17.2                                                                                   | 14.8 |        | 15.7                                                                                        |      |        | 13.3                                                                                        |      |        | 12                                                                                    |      | 30                                                                                  |     |  |
| 32                                                                                | 9.5   | 11                                                                                            | 10.9 | 16.1  | 14.6                                                                                                | 11.5 |        | 16.8                                                                                   | 14.7 |        | 15.5                                                                                        | 13.8 |        | 13.3                                                                                        |      |        | 12                                                                                    |      | 32                                                                                  |     |  |
| 34                                                                                | 8.9   | 10.4                                                                                          | 10.5 | 15.7  | 14.5                                                                                                | 11.5 |        | 16.4                                                                                   | 14.5 |        | 15.4                                                                                        | 13.6 |        | 13.2                                                                                        |      |        | 11.9                                                                                  |      | 34                                                                                  |     |  |
| 36                                                                                | 8.3   | 9.7                                                                                           | 10   | 15.3  | 14.3                                                                                                | 11.5 |        | 16.1                                                                                   | 14.2 |        | 15.2                                                                                        | 13.4 |        | 13.1                                                                                        |      |        | 11.8                                                                                  |      | 36                                                                                  |     |  |
| 38                                                                                | 7.7   | 9.1                                                                                           | 9.5  | 14.9  | 14                                                                                                  | 11.5 |        | 15.7                                                                                   | 14   | 11.5   | 15.1                                                                                        | 13.2 |        | 13                                                                                          | 12   |        | 11.7                                                                                  | 11.2 | 38                                                                                  |     |  |
| 40                                                                                | 7.2   | 8.5                                                                                           | 9    | 14.5  | 13.8                                                                                                | 11.5 |        | 15.3                                                                                   | 13.7 | 11.5   | 14.9                                                                                        | 13   |        | 12.8                                                                                        | 11.9 |        | 11.5                                                                                  | 11.1 | 40                                                                                  |     |  |
| 45                                                                                | 6.1   | 7.4                                                                                           | 7.7  | 13.5  | 13.2                                                                                                | 11.3 |        | 14.4                                                                                   | 13.2 | 11.5   | 14.5                                                                                        | 12.6 | 11.2   | 12.3                                                                                        | 11.6 | 10.7   | 11.2                                                                                  | 10.8 | 10.2                                                                                | 45  |  |
| 50                                                                                |       |                                                                                               |      | 12.6  | 12.5                                                                                                | 11.1 |        | 13.5                                                                                   | 12.7 | 11.2   | 13.9                                                                                        | 12.2 | 10.9   | 11.7                                                                                        | 11.1 | 10.4   | 10.7                                                                                  | 10.1 | 9.7                                                                                 | 50  |  |
| 55                                                                                |       |                                                                                               |      | 11.7  | 11.8                                                                                                | 10.8 |        | 12.6                                                                                   | 12.2 | 10.9   | 13.3                                                                                        | 11.8 | 10.6   | 11.2                                                                                        | 10.6 | 10     | 10.1                                                                                  | 9.5  | 9.1                                                                                 | 55  |  |
| 60                                                                                |       |                                                                                               |      | 10.7  | 11                                                                                                  | 10.4 |        | 11.8                                                                                   | 11.7 | 10.6   | 12.6                                                                                        | 11.5 | 10.4   | 10.7                                                                                        | 9.9  | 9.6    | 9.4                                                                                   | 8.9  | 8.7                                                                                 | 60  |  |
| 65                                                                                |       |                                                                                               |      | 9.8   | 10.3                                                                                                | 9.8  |        | 11                                                                                     | 11.1 | 10.3   | 11.6                                                                                        | 11.1 | 10.1   | 10.1                                                                                        | 9.2  | 9      | 8.9                                                                                   | 8.5  | 8.4                                                                                 | 65  |  |
| 70                                                                                |       |                                                                                               |      | 9     | 9.4                                                                                                 | 9.2  |        | 10.1                                                                                   | 10.4 | 9.8    | 10.3                                                                                        | 10.6 | 9.8    | 9.5                                                                                         | 8.8  | 8.6    | 8.5                                                                                   | 8.2  | 8                                                                                   | 70  |  |
| 75                                                                                |       |                                                                                               |      | 8.2   | 8.7                                                                                                 | 8.6  |        | 9.3                                                                                    | 9.7  | 9.3    | 9.1                                                                                         | 9.7  | 9.4    | 8.9                                                                                         | 8.4  | 8.3    | 8.1                                                                                   | 7.8  | 7.7                                                                                 | 75  |  |
| 80                                                                                |       |                                                                                               |      | 7.4   | 8.1                                                                                                 | 8    |        | 8.5                                                                                    | 8.9  | 8.8    | 8.2                                                                                         | 8.6  | 8.8    | 8.2                                                                                         | 8    | 8      | 7.7                                                                                   | 7.5  | 7.4                                                                                 | 80  |  |
| 85                                                                                |       |                                                                                               |      | 6.8   | 7.6                                                                                                 | 7.4  |        | 7.7                                                                                    | 8    | 8.2    | 7.8                                                                                         | 7.7  | 7.9    | 7.4                                                                                         | 7.7  | 7.7    | 7.2                                                                                   | 7.2  | 7.2                                                                                 | 85  |  |
| 90                                                                                |       |                                                                                               |      | 6.2   | 7                                                                                                   |      |        | 7.1                                                                                    | 7.3  | 7.5    | 7.1                                                                                         | 7.2  | 7.4    | 6.7                                                                                         | 7    | 7.2    | 6.5                                                                                   | 6.8  | 6.9                                                                                 | 90  |  |
| 95                                                                                |       |                                                                                               |      | 5.7   | 6.4                                                                                                 |      |        | 6.6                                                                                    | 6.7  |        | 6.4                                                                                         | 6.7  | 6.8    | 6                                                                                           | 6.3  | 6.6    | 5.9                                                                                   | 6.3  | 6.4                                                                                 | 95  |  |
| 100                                                                               |       |                                                                                               |      | 5.1   |                                                                                                     |      |        | 6.1                                                                                    | 6.3  |        | 5.8                                                                                         | 6.1  |        | 5.4                                                                                         | 5.7  | 5.9    | 5.3                                                                                   | 5.6  | 5.9                                                                                 | 100 |  |
| 105                                                                               |       |                                                                                               |      | 4.5   |                                                                                                     |      |        | 5.5                                                                                    | 5.7  |        | 5.3                                                                                         | 5.5  |        | 4.8                                                                                         | 5.1  | 5.3    | 4.7                                                                                   | 5    | 5.3                                                                                 | 105 |  |
| 110                                                                               |       |                                                                                               |      |       |                                                                                                     |      |        | 5                                                                                      | 5.2  |        | 4.8                                                                                         | 5    |        | 4.3                                                                                         | 4.6  |        | 4.2                                                                                   | 4.5  | 4.7                                                                                 | 110 |  |
| 115                                                                               |       |                                                                                               |      |       |                                                                                                     |      |        |                                                                                        |      |        | 4.3                                                                                         | 4.5  |        | 3.8                                                                                         | 4.1  |        | 3.7                                                                                   | 4    |                                                                                     | 115 |  |
| 120                                                                               |       |                                                                                               |      |       |                                                                                                     |      |        |                                                                                        |      |        | 3.9                                                                                         |      |        | 3.4                                                                                         | 3.6  |        | 3.3                                                                                   | 3.6  |                                                                                     | 120 |  |
| 125                                                                               |       |                                                                                               |      |       |                                                                                                     |      |        |                                                                                        |      |        | 3.5                                                                                         |      |        | 3                                                                                           | 3.2  |        | 2.9                                                                                   | 3.1  |                                                                                     | 125 |  |
| 130                                                                               |       |                                                                                               |      |       |                                                                                                     |      |        |                                                                                        |      |        |                                                                                             |      |        | 2.6                                                                                         | 2.8  |        | 2.6                                                                                   | 2.8  |                                                                                     | 130 |  |
| 135                                                                               |       |                                                                                               |      |       |                                                                                                     |      |        |                                                                                        |      |        |                                                                                             |      |        | 2.3                                                                                         |      |        | 2.2                                                                                   | 2.4  |                                                                                     | 135 |  |
| 140                                                                               |       |                                                                                               |      |       |                                                                                                     |      |        |                                                                                        |      |        |                                                                                             |      |        |                                                                                             |      |        | 1.9                                                                                   |      |                                                                                     | 140 |  |
| 145                                                                               |       |                                                                                               |      |       |                                                                                                     |      |        |                                                                                        |      |        |                                                                                             |      |        |                                                                                             |      |        | 1.7                                                                                   |      |                                                                                     | 145 |  |

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## Lifting capacities Forces de levage

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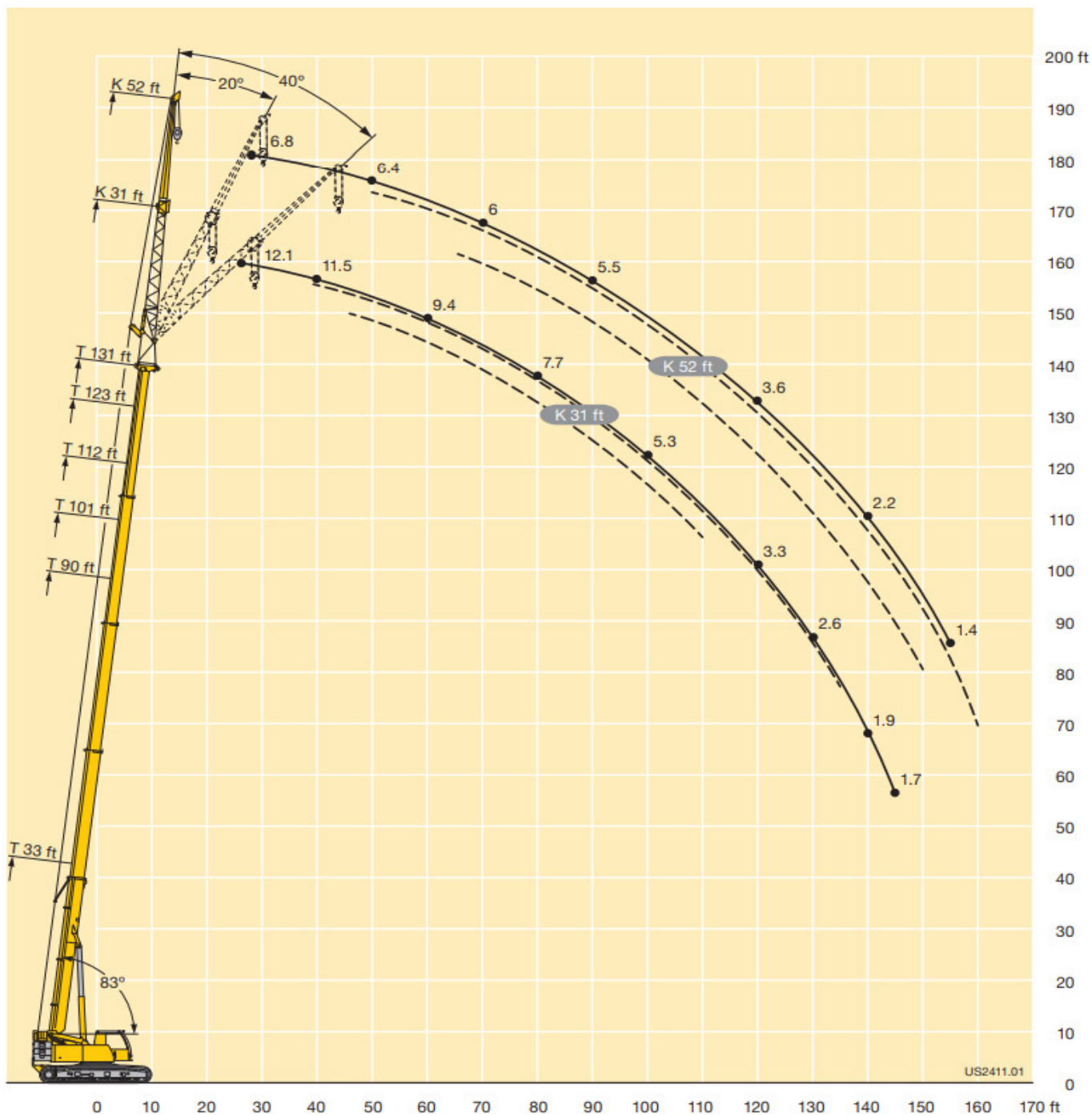
|                                                                                   |  |  33 – 131 ft |     |     |  52 ft<br>15.75 ft |     |     |  360° |     |     |  34400 lbs |     |     |  22050 lbs |     |     |  75% |     |     |     |     |
|-----------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------|-----|-----|-----------------------------------------------------------------------------------------------------|-----|-----|----------------------------------------------------------------------------------------|-----|-----|---------------------------------------------------------------------------------------------|-----|-----|---------------------------------------------------------------------------------------------|-----|-----|---------------------------------------------------------------------------------------|-----|-----|-----|-----|
|                                                                                   |  | 33 ft                                                                                         |     |     | 90 ft                                                                                               |     |     | 101 ft                                                                                 |     |     | 112 ft                                                                                      |     |     | 123 ft                                                                                      |     |     | 131 ft                                                                                |     |     |     |     |
|                                                                                   |  | 52 ft                                                                                         |     |     | 52 ft                                                                                               |     |     | 52 ft                                                                                  |     |     | 52 ft                                                                                       |     |     | 52 ft                                                                                       |     |     | 52 ft                                                                                 |     |     |     |     |
|                                                                                   |  | 0°                                                                                            | 20° | 40° | 0°                                                                                                  | 20° | 40° | 0°                                                                                     | 20° | 40° | 0°                                                                                          | 20° | 40° | 0°                                                                                          | 20° | 40° | 0°                                                                                    | 20° | 40° |     |     |
|  |  | 13                                                                                            | 8.9 |     |                                                                                                     |     |     |                                                                                        |     |     |                                                                                             |     |     |                                                                                             |     |     |                                                                                       |     |     |     | 13  |
|                                                                                   |  | 14                                                                                            | 8.8 |     |                                                                                                     |     |     |                                                                                        |     |     |                                                                                             |     |     |                                                                                             |     |     |                                                                                       |     |     |     | 14  |
|                                                                                   |  | 15                                                                                            | 8.8 |     |                                                                                                     |     |     |                                                                                        |     |     |                                                                                             |     |     |                                                                                             |     |     |                                                                                       |     |     |     | 15  |
|                                                                                   |  | 16                                                                                            | 8.7 |     |                                                                                                     |     |     |                                                                                        |     |     |                                                                                             |     |     |                                                                                             |     |     |                                                                                       |     |     |     | 16  |
|                                                                                   |  | 17                                                                                            | 8.5 |     |                                                                                                     |     |     |                                                                                        |     |     |                                                                                             |     |     |                                                                                             |     |     |                                                                                       |     |     |     | 17  |
|                                                                                   |  | 18                                                                                            | 8.4 |     |                                                                                                     | 9   |     |                                                                                        |     |     |                                                                                             |     |     |                                                                                             |     |     |                                                                                       |     |     |     | 18  |
|                                                                                   |  | 20                                                                                            | 8.2 |     |                                                                                                     | 9   |     |                                                                                        |     |     |                                                                                             |     |     |                                                                                             |     |     |                                                                                       |     |     |     | 20  |
|                                                                                   |  | 22                                                                                            | 7.9 |     |                                                                                                     | 9   |     |                                                                                        | 9   |     |                                                                                             |     |     |                                                                                             |     |     |                                                                                       |     |     |     | 22  |
|                                                                                   |  | 24                                                                                            | 7.7 |     |                                                                                                     | 9   |     |                                                                                        | 9   |     |                                                                                             |     |     |                                                                                             |     |     |                                                                                       |     |     |     | 24  |
|                                                                                   |  | 26                                                                                            | 7.4 | 7.1 |                                                                                                     | 9   |     |                                                                                        | 9   |     |                                                                                             | 8.3 |     |                                                                                             |     |     |                                                                                       |     |     |     | 26  |
|                                                                                   |  | 28                                                                                            | 7.2 | 7   |                                                                                                     | 8.9 |     |                                                                                        | 9   |     |                                                                                             | 8.3 |     |                                                                                             | 7.3 |     |                                                                                       | 6.8 |     |     | 28  |
|                                                                                   |  | 30                                                                                            | 7   | 6.8 |                                                                                                     | 8.8 |     |                                                                                        | 8.9 |     |                                                                                             | 8.2 |     |                                                                                             | 7.3 |     |                                                                                       | 6.8 |     |     | 30  |
|                                                                                   |  | 32                                                                                            | 6.9 | 6.7 |                                                                                                     | 8.6 |     |                                                                                        | 8.8 |     |                                                                                             | 8.1 |     |                                                                                             | 7.2 |     |                                                                                       | 6.7 |     |     | 32  |
|                                                                                   |  | 34                                                                                            | 6.7 | 6.5 |                                                                                                     | 8.5 |     |                                                                                        | 8.7 |     |                                                                                             | 8.1 |     |                                                                                             | 7.2 |     |                                                                                       | 6.7 |     |     | 34  |
|                                                                                   |  | 36                                                                                            | 6.5 | 6.4 |                                                                                                     | 8.3 | 7.2 |                                                                                        | 8.6 |     |                                                                                             | 8   |     |                                                                                             | 7.2 |     |                                                                                       | 6.7 |     |     | 36  |
|                                                                                   |  | 38                                                                                            | 6.3 | 6.2 | 4.9                                                                                                 | 8.2 | 7.1 |                                                                                        | 8.5 | 7.1 |                                                                                             | 7.9 |     |                                                                                             | 7.1 |     |                                                                                       | 6.6 |     |     | 38  |
|                                                                                   |  | 40                                                                                            | 6.1 | 6.1 | 4.8                                                                                                 | 8.1 | 7   |                                                                                        | 8.3 | 7   |                                                                                             | 7.9 |     |                                                                                             | 7.1 |     |                                                                                       | 6.6 |     |     | 40  |
|                                                                                   |  | 45                                                                                            | 5.7 | 5.8 | 4.7                                                                                                 | 7.7 | 6.7 |                                                                                        | 8   | 6.8 |                                                                                             | 7.7 | 6.5 |                                                                                             | 6.9 |     |                                                                                       | 6.5 |     |     | 45  |
|                                                                                   |  | 50                                                                                            | 5.2 | 5.5 | 4.6                                                                                                 | 7.3 | 6.5 | 4.9                                                                                    | 7.6 | 6.6 |                                                                                             | 7.4 | 6.4 |                                                                                             | 6.8 | 6   |                                                                                       | 6.4 | 5.7 |     | 50  |
|                                                                                   |  | 55                                                                                            | 4.7 | 5.1 | 4.5                                                                                                 | 7   | 6.3 | 4.8                                                                                    | 7.3 | 6.4 | 4.8                                                                                         | 7.2 | 6.2 | 4.8                                                                                         | 6.7 | 5.9 |                                                                                       | 6.3 | 5.7 |     | 55  |
|                                                                                   |  | 60                                                                                            | 4.2 | 4.8 | 4.4                                                                                                 | 6.8 | 6.1 | 4.7                                                                                    | 7   | 6.2 | 4.8                                                                                         | 7   | 6   | 4.8                                                                                         | 6.6 | 5.8 |                                                                                       | 6.2 | 5.6 |     | 60  |
|                                                                                   |  | 65                                                                                            | 3.7 | 4.5 | 4.2                                                                                                 | 6.5 | 5.9 | 4.7                                                                                    | 6.8 | 6   | 4.7                                                                                         | 6.8 | 5.9 | 4.8                                                                                         | 6.4 | 5.6 | 4.8                                                                                   | 6.1 | 5.5 | 4.8 | 65  |
|                                                                                   |  | 70                                                                                            |     |     |                                                                                                     | 6.2 | 5.7 | 4.6                                                                                    | 6.6 | 5.8 | 4.7                                                                                         | 6.6 | 5.7 | 4.7                                                                                         | 6.3 | 5.5 | 4.7                                                                                   | 6   | 5.4 | 4.8 | 70  |
|                                                                                   |  | 75                                                                                            |     |     |                                                                                                     | 5.9 | 5.6 | 4.6                                                                                    | 6.3 | 5.6 | 4.6                                                                                         | 6.4 | 5.6 | 4.7                                                                                         | 6.1 | 5.4 | 4.7                                                                                   | 5.9 | 5.3 | 4.7 | 75  |
|                                                                                   |  | 80                                                                                            |     |     |                                                                                                     | 5.7 | 5.4 | 4.5                                                                                    | 6   | 5.5 | 4.6                                                                                         | 6.3 | 5.4 | 4.6                                                                                         | 6   | 5.3 | 4.6                                                                                   | 5.7 | 5.2 | 4.7 | 80  |
|                                                                                   |  | 85                                                                                            |     |     |                                                                                                     | 5.4 | 5.3 | 4.5                                                                                    | 5.8 | 5.4 | 4.5                                                                                         | 6.1 | 5.3 | 4.6                                                                                         | 5.8 | 5.2 | 4.6                                                                                   | 5.6 | 5.1 | 4.6 | 85  |
|                                                                                   |  | 90                                                                                            |     |     |                                                                                                     | 5.1 | 5.1 | 4.4                                                                                    | 5.5 | 5.3 | 4.5                                                                                         | 5.9 | 5.2 | 4.5                                                                                         | 5.7 | 5.1 | 4.6                                                                                   | 5.5 | 5   | 4.6 | 90  |
|                                                                                   |  | 95                                                                                            |     |     |                                                                                                     | 4.8 | 4.9 | 4.3                                                                                    | 5.3 | 5.1 | 4.4                                                                                         | 5.6 | 5.1 | 4.5                                                                                         | 5.5 | 5   | 4.5                                                                                   | 5.4 | 4.9 | 4.6 | 95  |
|                                                                                   |  | 100                                                                                           |     |     |                                                                                                     | 4.5 | 4.8 | 4.3                                                                                    | 5   | 5   | 4.4                                                                                         | 5.4 | 5   | 4.4                                                                                         | 5.3 | 5   | 4.5                                                                                   | 5.2 | 4.9 | 4.5 | 100 |
|                                                                                   |  | 105                                                                                           |     |     |                                                                                                     | 4.2 | 4.7 | 4.2                                                                                    | 4.7 | 4.8 | 4.3                                                                                         | 5.1 | 5   | 4.4                                                                                         | 5.1 | 4.9 | 4.5                                                                                   | 5   | 4.8 | 4.5 | 105 |
|                                                                                   |  | 110                                                                                           |     |     |                                                                                                     | 3.9 | 4.7 | 4.1                                                                                    | 4.4 | 4.7 | 4.2                                                                                         | 4.9 | 4.9 | 4.3                                                                                         | 4.6 | 4.8 | 4.4                                                                                   | 4.5 | 4.7 | 4.5 | 110 |
|                                                                                   |  | 115                                                                                           |     |     |                                                                                                     | 3.6 | 4.6 |                                                                                        | 4.1 | 4.5 | 4.1                                                                                         | 4.5 | 4.7 | 4.3                                                                                         | 4.1 | 4.6 | 4.3                                                                                   | 4   | 4.5 | 4.4 | 115 |
|                                                                                   |  | 120                                                                                           |     |     |                                                                                                     | 3.3 | 4.4 |                                                                                        | 3.8 | 4.3 | 4                                                                                           | 4.2 | 4.5 | 4.2                                                                                         | 3.7 | 4.2 | 4.2                                                                                   | 3.6 | 4.1 | 4.3 | 120 |
|                                                                                   |  | 125                                                                                           |     |     |                                                                                                     | 3.1 | 3.9 |                                                                                        | 3.6 | 4.2 | 3.9                                                                                         | 3.8 | 4.1 | 4.1                                                                                         | 3.3 | 3.7 | 4                                                                                     | 3.2 | 3.7 | 4   | 125 |
|                                                                                   |  | 130                                                                                           |     |     |                                                                                                     |     |     |                                                                                        | 3.3 | 3.9 |                                                                                             | 3.4 | 3.7 | 3.8                                                                                         | 2.9 | 3.3 | 3.6                                                                                   | 2.9 | 3.3 | 3.5 | 130 |
|                                                                                   |  | 135                                                                                           |     |     |                                                                                                     |     |     |                                                                                        | 3.1 |     |                                                                                             | 3.1 | 3.3 |                                                                                             | 2.6 | 2.9 | 3.1                                                                                   | 2.5 | 2.9 | 3.1 | 135 |
|                                                                                   |  | 140                                                                                           |     |     |                                                                                                     |     |     |                                                                                        |     |     |                                                                                             | 2.8 | 3   |                                                                                             | 2.3 | 2.6 | 2.7                                                                                   | 2.2 | 2.5 | 2.7 | 140 |
|                                                                                   |  | 145                                                                                           |     |     |                                                                                                     |     |     |                                                                                        |     |     |                                                                                             | 2.5 | 2.7 |                                                                                             | 2   | 2.3 | 2.4                                                                                   | 1.9 | 2.2 | 2.4 | 145 |
|                                                                                   |  | 150                                                                                           |     |     |                                                                                                     |     |     |                                                                                        |     |     |                                                                                             |     |     |                                                                                             | 1.7 | 2   |                                                                                       | 1.7 | 1.9 | 2   | 150 |
|                                                                                   |  | 155                                                                                           |     |     |                                                                                                     |     |     |                                                                                        |     |     |                                                                                             |     |     |                                                                                             | 1.5 | 1.7 |                                                                                       | 1.4 | 1.6 |     | 155 |
|                                                                                   |  | 160                                                                                           |     |     |                                                                                                     |     |     |                                                                                        |     |     |                                                                                             |     |     |                                                                                             |     |     |                                                                                       |     | 1.4 |     | 160 |

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**Lifting heights**  
**Hauteurs de levage**

**TK**







## Lifting capacities Forces de levage

**TK**

| <div> <div>33 - 131 ft</div> <div>15.75 ft</div> <div>8 ft</div> <div>360°</div> <div>34400 lbs</div> <div>22050 lbs</div> <div>75%</div> </div> |       |       |       |       |       |       |        |        |        |        |     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-----|--|
| ft                                                                                                                                               | 33 ft | 45 ft | 56 ft | 67 ft | 78 ft | 90 ft | 101 ft | 112 ft | 123 ft | 131 ft | ft  |  |
|                                                                                                                                                  | 8 ft  |       |       |       |       |       |        |        |        |        |     |  |
| 10                                                                                                                                               | 38.9  | 38.9  |       |       |       |       |        |        |        |        | 10  |  |
| 11                                                                                                                                               | 38.9  | 38.9  |       |       |       |       |        |        |        |        | 11  |  |
| 12                                                                                                                                               | 38.9  | 38.9  | 38.9  |       |       |       |        |        |        |        | 12  |  |
| 13                                                                                                                                               | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  |       |        |        |        |        | 13  |  |
| 14                                                                                                                                               | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  |       |        |        |        |        | 14  |  |
| 15                                                                                                                                               | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  |       |        |        |        |        | 15  |  |
| 16                                                                                                                                               | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  |        |        |        |        | 16  |  |
| 17                                                                                                                                               | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  |        |        |        |        | 17  |  |
| 18                                                                                                                                               | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  |        |        |        |        | 18  |  |
| 19                                                                                                                                               | 38.4  | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  |        |        |        |        | 19  |  |
| 20                                                                                                                                               | 37.7  | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  | 34.9   |        |        |        | 20  |  |
| 22                                                                                                                                               | 35.4  | 38.9  | 38.9  | 38.9  | 38.9  | 38.8  | 34     |        |        |        | 22  |  |
| 24                                                                                                                                               | 32.4  | 38.8  | 38.9  | 38.9  | 38.9  | 38.3  | 32.8   | 26.8   |        |        | 24  |  |
| 26                                                                                                                                               | 29.2  | 37.7  | 38.9  | 38.9  | 38.9  | 37    | 31.6   | 26.1   | 21.3   | 18     | 26  |  |
| 28                                                                                                                                               | 26.8  | 36.2  | 38.9  | 38.9  | 38.6  | 35.4  | 30.5   | 25.4   | 20.9   | 17.8   | 28  |  |
| 30                                                                                                                                               | 24.4  | 34.4  | 37.4  | 36.5  | 35.8  | 33.5  | 29.3   | 24.6   | 20.5   | 17.5   | 30  |  |
| 32                                                                                                                                               | 22.3  | 32.3  | 34.3  | 34.3  | 33.3  | 31.2  | 28.1   | 23.9   | 19.8   | 17.2   | 32  |  |
| 34                                                                                                                                               |       | 30    | 31.3  | 32    | 30.9  | 29.1  | 27     | 23.2   | 19.2   | 16.8   | 34  |  |
| 36                                                                                                                                               |       | 27.9  | 29.4  | 29.4  | 28.8  | 27.2  | 26     | 22.5   | 18.7   | 16.4   | 36  |  |
| 38                                                                                                                                               |       | 26.1  | 27.4  | 27.2  | 26.7  | 25.6  | 24.5   | 21.9   | 18.2   | 16.1   | 38  |  |
| 40                                                                                                                                               |       | 24.3  | 25.4  | 25.2  | 24.8  | 24.3  | 23     | 21.2   | 17.7   | 15.7   | 40  |  |
| 45                                                                                                                                               |       |       | 21.4  | 21.2  | 20.8  | 20.8  | 19.9   | 19.6   | 16.6   | 14.9   | 45  |  |
| 50                                                                                                                                               |       |       | 18.3  | 18.2  | 17.9  | 18.1  | 17.5   | 17.1   | 15.5   | 14.1   | 50  |  |
| 55                                                                                                                                               |       |       | 15.9  | 15.7  | 16    | 15.7  | 15.4   | 15     | 14.6   | 13.3   | 55  |  |
| 60                                                                                                                                               |       |       |       | 13.8  | 14.2  | 13.7  | 13.4   | 13.5   | 13.3   | 12.6   | 60  |  |
| 65                                                                                                                                               |       |       |       | 12.6  | 12.6  | 12.1  | 12.2   | 12.2   | 11.7   | 11.7   | 65  |  |
| 70                                                                                                                                               |       |       |       |       | 11.2  | 11    | 10.9   | 10.8   | 10.3   | 10.4   | 70  |  |
| 75                                                                                                                                               |       |       |       |       | 10    | 10.1  | 9.8    | 9.5    | 9      | 9.1    | 75  |  |
| 80                                                                                                                                               |       |       |       |       |       | 9     | 8.7    | 8.5    | 8.1    | 8.1    | 80  |  |
| 85                                                                                                                                               |       |       |       |       |       | 8.1   | 7.8    | 7.6    | 7.2    | 7.2    | 85  |  |
| 90                                                                                                                                               |       |       |       |       |       |       | 7.1    | 6.8    | 6.4    | 6.5    | 90  |  |
| 95                                                                                                                                               |       |       |       |       |       |       | 6.4    | 6.2    | 5.7    | 5.8    | 95  |  |
| 100                                                                                                                                              |       |       |       |       |       |       | 5.8    | 5.6    | 5.1    | 5.1    | 100 |  |
| 105                                                                                                                                              |       |       |       |       |       |       |        | 5      | 4.5    | 4.6    | 105 |  |
| 110                                                                                                                                              |       |       |       |       |       |       |        | 4.5    | 4      | 4.1    | 110 |  |
| 115                                                                                                                                              |       |       |       |       |       |       |        |        | 3.5    | 3.6    | 115 |  |
| 120                                                                                                                                              |       |       |       |       |       |       |        |        | 3.1    | 3.2    | 120 |  |
| 125                                                                                                                                              |       |       |       |       |       |       |        |        |        | 2.8    | 125 |  |
| 130                                                                                                                                              |       |       |       |       |       |       |        |        |        | 2.4    | 130 |  |

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## Lifting capacities Forces de levage

**TK**

| <div> <div>33 - 131 ft</div> <div>9.85 ft</div> <div>8 ft</div> <div>n.v. / n.h.</div> <div>34400 lbs</div> <div>22050 lbs</div> <div>75%</div> </div> |       |       |       |       |       |       |        |        |        |        |     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-----|--|
| ft                                                                                                                                                     | 33 ft | 45 ft | 56 ft | 67 ft | 78 ft | 90 ft | 101 ft | 112 ft | 123 ft | 131 ft | ft  |  |
|                                                                                                                                                        | 8 ft  |       |       |       |       |       |        |        |        |        |     |  |
| 10                                                                                                                                                     | 38.9  | 38.9  |       |       |       |       |        |        |        |        | 10  |  |
| 11                                                                                                                                                     | 38.9  | 38.9  |       |       |       |       |        |        |        |        | 11  |  |
| 12                                                                                                                                                     | 38.9  | 38.9  | 38.9  |       |       |       |        |        |        |        | 12  |  |
| 13                                                                                                                                                     | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  |       |        |        |        |        | 13  |  |
| 14                                                                                                                                                     | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  |       |        |        |        |        | 14  |  |
| 15                                                                                                                                                     | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  |       |        |        |        |        | 15  |  |
| 16                                                                                                                                                     | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  |        |        |        |        | 16  |  |
| 17                                                                                                                                                     | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  |        |        |        |        | 17  |  |
| 18                                                                                                                                                     | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  |        |        |        |        | 18  |  |
| 19                                                                                                                                                     | 38.4  | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  |        |        |        |        | 19  |  |
| 20                                                                                                                                                     | 37.7  | 38.9  | 38.9  | 38.9  | 38.9  | 38.9  | 34.9   |        |        |        | 20  |  |
| 22                                                                                                                                                     | 35.4  | 38.9  | 38.9  | 38.9  | 38.9  | 38.8  | 34     |        |        |        | 22  |  |
| 24                                                                                                                                                     | 32.4  | 38.8  | 38.9  | 38.9  | 38.9  | 38.3  | 32.8   | 26.8   |        |        | 24  |  |
| 26                                                                                                                                                     | 29.2  | 37.7  | 38.9  | 38.9  | 38.9  | 37    | 31.6   | 26.1   | 21.3   | 18     | 26  |  |
| 28                                                                                                                                                     | 26.8  | 36.2  | 38.9  | 38.9  | 38.7  | 35.4  | 30.5   | 25.4   | 20.9   | 17.8   | 28  |  |
| 30                                                                                                                                                     | 24.4  | 34.4  | 37.8  | 37    | 36.4  | 33.7  | 29.3   | 24.6   | 20.5   | 17.5   | 30  |  |
| 32                                                                                                                                                     | 22.3  | 32.3  | 34.9  | 34.4  | 33.9  | 31.8  | 28.1   | 23.9   | 19.8   | 17.2   | 32  |  |
| 34                                                                                                                                                     |       | 30    | 31.9  | 32.4  | 31.5  | 29.7  | 27     | 23.2   | 19.2   | 16.8   | 34  |  |
| 36                                                                                                                                                     |       | 27.9  | 29.4  | 30    | 29.4  | 27.7  | 26     | 22.5   | 18.7   | 16.4   | 36  |  |
| 38                                                                                                                                                     |       | 26.1  | 27.9  | 27.7  | 27.2  | 25.9  | 24.8   | 21.9   | 18.2   | 16.1   | 38  |  |
| 40                                                                                                                                                     |       | 24.3  | 25.9  | 25.7  | 25.2  | 24.6  | 23.5   | 21.2   | 17.7   | 15.7   | 40  |  |
| 45                                                                                                                                                     |       |       | 21.8  | 21.6  | 21.1  | 21.1  | 20.3   | 19.6   | 16.6   | 14.9   | 45  |  |
| 50                                                                                                                                                     |       |       | 18.6  | 18.5  | 18.2  | 18.4  | 17.5   | 17.5   | 15.5   | 14.1   | 50  |  |
| 55                                                                                                                                                     |       |       | 16.2  | 16    | 16.2  | 16    | 15.7   | 15.3   | 14.6   | 13.3   | 55  |  |
| 60                                                                                                                                                     |       |       |       | 14    | 14.5  | 14    | 13.7   | 13.6   | 13.5   | 12.6   | 60  |  |
| 65                                                                                                                                                     |       |       |       | 12.6  | 12.8  | 12.3  | 12.5   | 12.4   | 12     | 11.9   | 65  |  |
| 70                                                                                                                                                     |       |       |       |       | 11.4  | 11    | 11.1   | 11     | 10.5   | 10.6   | 70  |  |
| 75                                                                                                                                                     |       |       |       |       | 10.1  | 10.1  | 9.9    | 9.5    | 9      | 9.1    | 75  |  |
| 80                                                                                                                                                     |       |       |       |       |       | 9     | 8.7    | 8.5    | 8.1    | 8.1    | 80  |  |
| 85                                                                                                                                                     |       |       |       |       |       | 8.1   | 7.8    | 7.6    | 7.2    | 7.2    | 85  |  |
| 90                                                                                                                                                     |       |       |       |       |       |       | 7.1    | 6.8    | 6.4    | 6.5    | 90  |  |
| 95                                                                                                                                                     |       |       |       |       |       |       | 6.4    | 6.2    | 5.7    | 5.8    | 95  |  |
| 100                                                                                                                                                    |       |       |       |       |       |       | 5.8    | 5.6    | 5.1    | 5.2    | 100 |  |
| 105                                                                                                                                                    |       |       |       |       |       |       |        | 5      | 4.5    | 4.6    | 105 |  |
| 110                                                                                                                                                    |       |       |       |       |       |       |        | 4.5    | 4      | 4.1    | 110 |  |
| 115                                                                                                                                                    |       |       |       |       |       |       |        |        | 3.6    | 3.6    | 115 |  |
| 120                                                                                                                                                    |       |       |       |       |       |       |        |        | 3.2    | 3.2    | 120 |  |
| 125                                                                                                                                                    |       |       |       |       |       |       |        |        |        | 2.8    | 125 |  |
| 130                                                                                                                                                    |       |       |       |       |       |       |        |        |        | 2.4    | 130 |  |

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## Lifting capacities Forces de levage

**TK**

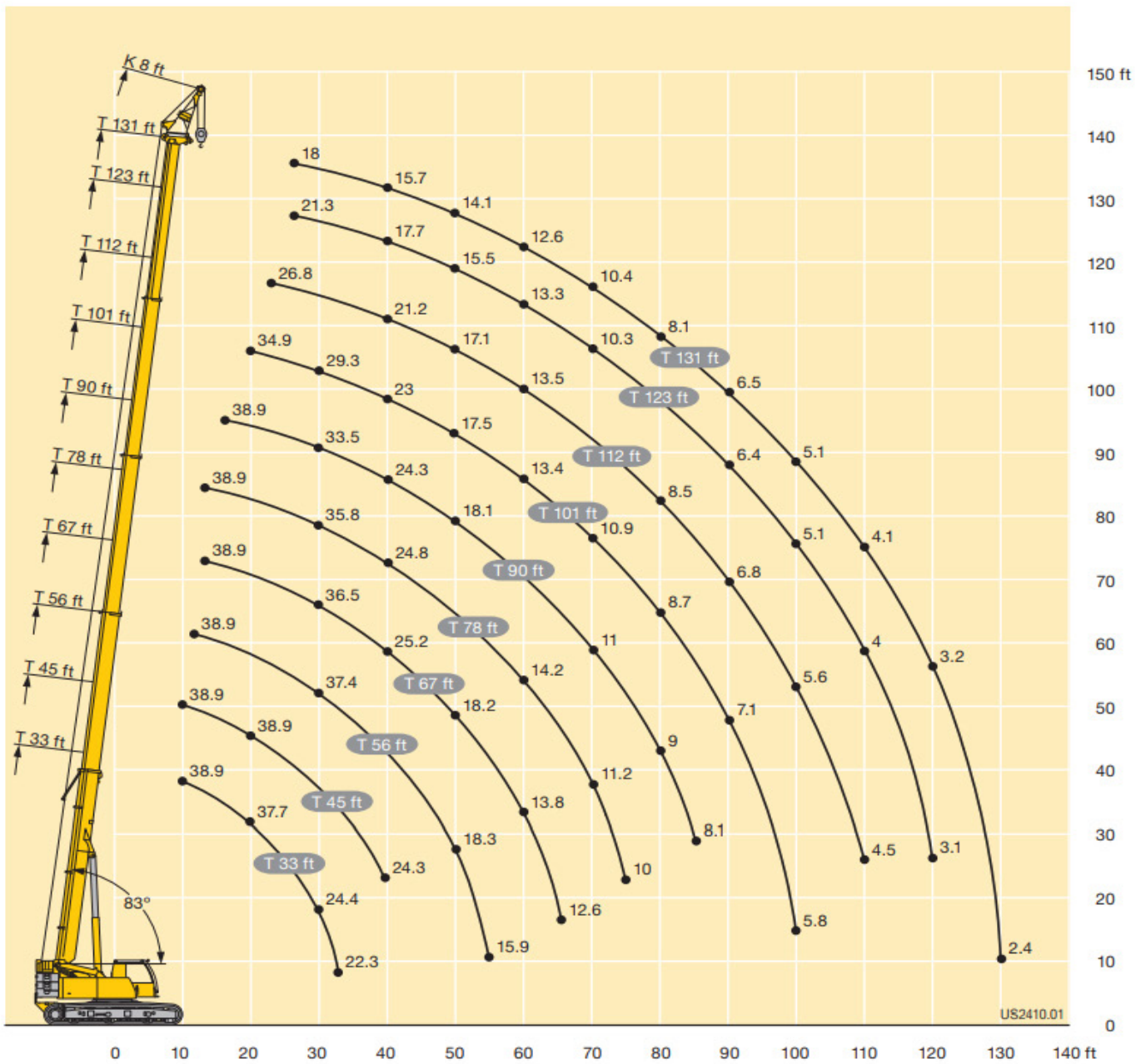
| <div> <div>33 - 131 ft</div> <div>9.85 ft</div> <div>8 ft</div> <div>360°</div> <div>34400 lbs</div> <div>22050 lbs</div> <div>75%</div> </div> |       |       |       |       |       |       |        |        |        |        |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|-----|
| ft                                                                                                                                              | 33 ft | 45 ft | 56 ft | 67 ft | 78 ft | 90 ft | 101 ft | 112 ft | 123 ft | 131 ft | ft  |
|                                                                                                                                                 | 8 ft  |       |       |       |       |       |        |        |        |        |     |
| 22                                                                                                                                              | 34.7  | 34.6  | 31.8  | 30    |       |       |        |        |        |        | 22  |
| 24                                                                                                                                              | 30.7  | 31.4  | 29.6  | 27.6  | 25.6  |       |        |        |        |        | 24  |
| 26                                                                                                                                              | 27.3  | 28    | 27    | 25.1  | 23.4  |       |        |        |        |        | 26  |
| 28                                                                                                                                              | 24.6  | 25.2  | 25.6  | 24.6  | 23    | 21.2  | 20.3   |        |        |        | 28  |
| 30                                                                                                                                              | 22.2  | 22.9  | 23.2  | 22.7  | 22.2  | 20.8  | 18.7   |        |        |        | 30  |
| 32                                                                                                                                              | 20.2  | 20.9  | 21.2  | 21.6  | 20.6  | 19.9  | 18.2   | 17     |        |        | 32  |
| 34                                                                                                                                              |       | 19.2  | 19.5  | 19.9  | 19.2  | 18.6  | 17.7   | 16.8   | 15.7   |        | 34  |
| 36                                                                                                                                              |       | 17.6  | 18    | 18.4  | 17.9  | 17.4  | 16.5   | 15.7   | 14.6   | 14.4   | 36  |
| 38                                                                                                                                              |       | 16.3  | 16.7  | 17    | 16.8  | 16.3  | 15.5   | 14.7   | 13.7   | 13.5   | 38  |
| 40                                                                                                                                              |       | 15    | 15.4  | 15.8  | 15.8  | 15.3  | 14.5   | 13.8   | 12.8   | 12.6   | 40  |
| 45                                                                                                                                              |       |       | 13    | 13.3  | 13.3  | 13.2  | 12.5   | 11.8   | 10.9   | 10.8   | 45  |
| 50                                                                                                                                              |       |       | 11    | 11.4  | 11.3  | 11.3  | 10.8   | 10.2   | 9.3    | 9.2    | 50  |
| 55                                                                                                                                              |       |       | 9.5   | 9.8   | 9.7   | 9.6   | 9.4    | 8.8    | 8      | 7.9    | 55  |
| 60                                                                                                                                              |       |       |       | 8.5   | 8.5   | 8.4   | 8.1    | 7.7    | 6.9    | 6.8    | 60  |
| 65                                                                                                                                              |       |       |       | 7.5   | 7.4   | 7.3   | 7.1    | 6.7    | 5.9    | 5.9    | 65  |
| 70                                                                                                                                              |       |       |       |       | 6.4   | 6.4   | 6.1    | 5.8    | 5.1    | 5.1    | 70  |
| 75                                                                                                                                              |       |       |       |       | 5.6   | 5.6   | 5.3    | 5      | 4.4    | 4.4    | 75  |
| 80                                                                                                                                              |       |       |       |       |       | 4.8   | 4.6    | 4.3    | 3.7    | 3.7    | 80  |
| 85                                                                                                                                              |       |       |       |       |       | 4.2   | 3.9    | 3.7    | 3.2    | 3.2    | 85  |
| 90                                                                                                                                              |       |       |       |       |       |       | 3.4    | 3.1    | 2.7    | 2.7    | 90  |
| 95                                                                                                                                              |       |       |       |       |       |       | 2.9    | 2.6    | 2.2    | 2.2    | 95  |
| 100                                                                                                                                             |       |       |       |       |       |       | 2.5    | 2.2    | 1.7    | 1.8    | 100 |
| 105                                                                                                                                             |       |       |       |       |       |       |        | 1.8    | 1.4    | 1.4    | 105 |
| 110                                                                                                                                             |       |       |       |       |       |       |        | 1.5    |        |        | 110 |

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**Lifting heights  
Hauteurs de levage**

**TK**







## Technical description Description techniques

### Crawler travel gear

|                        |                                                                                                                                                                                                                                                                                          |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Frame</b>           | Low torsion box construction, consisting of crawler center section and two crawler carriers.                                                                                                                                                                                             |
| <b>Tracks</b>          | Maintenance free crawler tracks with 2'4" wide triple grouser track pads.                                                                                                                                                                                                                |
| <b>Travel drive</b>    | 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 – 1.9 mph. |
| <b>Central ballast</b> | 22050 lbs, placement blocks at 11025 lbs each, mounting on crawler center section.                                                                                                                                                                                                       |

### Crane superstructure

|                       |                                                                                                                                                                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Frame</b>          | In-house 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 which allows for unlimited slewing.                                        |
| <b>Crane engine</b>   | 4-cylinder diesel, made by Liebherr, type D934L A6, watercooled, output of 129 kW (175 h.p.) at 1900 rpm acc. to EPA/CARB Tier 3 and to directive 97/68/EC, stage 3, max. torque 600 lbs-ft at 1500 rpm, fuel reservoir: 119 gallons.                                                                   |
| <b>Crane drive</b>    | Diesel-hydraulic, with 2 axial piston variable displacement pumps, with servo-control and capacity control, 1 double gear pump, open controlled oil circuits. Compact hydraulic drive flanged to the Diesel engine. Drive assembly completely enclosed for noise abatement.                             |
| <b>Control</b>        | 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. |
| <b>Hoist gear</b>     | Axial piston fixed displacement motor, Liebherr hoist drum with integrated planetary gear and spring-loaded static brake.                                                                                                                                                                               |
| <b>Luffing gear</b>   | 1 differential ram with safety check valves.                                                                                                                                                                                                                                                            |
| <b>Slewing gear</b>   | Axial piston fixed displacement motor, planetary gear, spring-loaded static brake, slewing gear invertible.                                                                                                                                                                                             |
| <b>Crane cab</b>      | Large screen area, compound glass, comfort furnishing, cabin tiltable 20° to rear.                                                                                                                                                                                                                      |
| <b>Safety devices</b> | LICCON2 safe load indicator, test system, hoist limit switches, safety valves against rupture of pipes and hoses.                                                                                                                                                                                       |

|                          |                                                                                                                                                                                                                                                                                                                      |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Telescopic boom</b>   | Buckling and torsion resistant design of high-tensile structural steel, oviform boom profile, 1 base section and 4 telescopic sections. All telescopic sections hydraulically extendable independent of one another. Rapid-cycle telescoping system "Telematik". 5 steel cable pulleys. Boom length: 33 ft – 131 ft. |
| <b>Counterweight</b>     | 12350 lbs                                                                                                                                                                                                                                                                                                            |
| <b>Electrical system</b> | Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each.                                                                                                                                                                                                                                                   |

### Additional equipment

|                                  |                                                                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Swing-away jib</b>            | Single folding jib, 31 ft long, installation at 0°, 20° or 40°. Double folding jib, 31 ft – 52 ft long, installation at 0°, 20° or 40°. |
| <b>Erection jib</b>              | 8 ft with steel cable pulleys.                                                                                                          |
| <b>2<sup>nd</sup> hoist gear</b> | For two-hook operation or for operation with swing-away jib if the hoist rope shall remain reeved.                                      |
| <b>Additional counterweight</b>  | 2 x 11025 lbs for a total counterweight of 34400 lbs.                                                                                   |
| <b>Track pads</b>                | 2'4" flat track pads.                                                                                                                   |

Other items of equipment available on request.



## Technical description Description techniques

### Train de chenilles

|                            |                                                                                                                                                                                                                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Châssis</b>             | Construction en caisson indéformable haute résistance, constitué de la partie centrale du train de roulement et de deux longerons.                                                                                                                                                                      |
| <b>Train de roulement</b>  | Train de roulement sans entretien, muni de tuiles à 3 nervures, de 2'4" de large.                                                                                                                                                                                                                       |
| <b>Transmission</b>        | 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 – 1.9 mph. |
| <b>Contrepoids central</b> | 22050 lbs, blocs de suspension de 11025 lbs chacun, fixation sur la partie centrale du train de roulement.                                                                                                                                                                                              |

### Partie tournante

|                                |                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cadre</b>                   | 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.                                                                                            |
| <b>Moteur</b>                  | 4 cylindres Diesel, fabrication Liebherr, type D934L A6, à refroidissement par eau, puissance: 129 KW (175 ch) à 1900 rpm selon EPA/CARB Tier 3 et selon directive 97/68 CE, niveau 3, couple maxi: 600 lbs-ft à 1500 rpm, capacité du réservoir de carburant: 119 gallons.                                                          |
| <b>Entraînement de la grue</b> | Diesel hydraulique avec 2 pompes à débit variable à pistons axiaux, servocommande et régulation de la puissance, 1 double pompe à engrenages, circuits hydrauliques ouverts et régulés. Entraînement hydraulique compact, accouplé directement au moteur Diesel, mécanisme d'entraînement total fermé pour une bonne insonorisation. |
| <b>Direction</b>               | 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.                    |
| <b>Mécanisme de levage</b>     | 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.                                                                                                                                                                             |
| <b>Mécanisme de relevage</b>   | 1 vérin différentiel avec soupapes de retenu.                                                                                                                                                                                                                                                                                        |
| <b>Dispositif de rotation</b>  | Moteur à cylindrée constante à pistons axiaux, engrenage planétaire, frein d'arrêt commandé par ressort, mécanisme d'orientation commutable.                                                                                                                                                                                         |

|                                |                                                                                                                                                                                                                                                                                                                         |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cabine de grue</b>          | Large champ de vision, vitrage de sécurité, équipement pour un confort idéal, cabine inclinable de 20° vers l'arrière.                                                                                                                                                                                                  |
| <b>Sécurités</b>               | Contrôleur de charge LICCON2, système test, fin de course crochet haut, clapets de sécurité en cas de ruptures de flexibles.                                                                                                                                                                                            |
| <b>Flèche télescopique</b>     | Flèche télescopique en acier à haute résistance à grains fins, à profil ovale, 1 élément de base et 4 éléments télescopiques. Tous les éléments télescopiques indépendamment les uns des autres. Système de télescopage séquentiel rapide «Telematik». 5 poulies de câble en acier. Longueur de flèche: 33 ft – 131 ft. |
| <b>Contrepoids</b>             | 12350 lbs                                                                                                                                                                                                                                                                                                               |
| <b>Installation électrique</b> | Technique moderne de transmission de données par BUS de données. Courant continu 24 Volts, 2 batteries de 170 Ah chacune.                                                                                                                                                                                               |

### Équipement supplémentaire

|                                   |                                                                                                                                                   |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fléchette pliante</b>          | Fléchette pliante simple, longueur 31 ft, montable à 0°, 20° ou 40°. Fléchette pliante double, longueur 31 ft – 52 ft, montable à 0°, 20° ou 40°. |
| <b>Fléchette de montage</b>       | 8 ft avec poulies de câble en acier.                                                                                                              |
| <b>2ème mécanisme de levage</b>   | Pour l'utilisation du deuxième crochet, ou bien pour une utilisation avec fléchette pliante lorsque le câble de levage principal rest mouflé.     |
| <b>Contrepoids supplémentaire</b> | 2 x 11025 lbs pour un contrepoids total de 34400 lbs.                                                                                             |
| <b>Tuiles</b>                     | Tuiles plates de 2'4".                                                                                                                            |

Autres équipements supplémentaires sur demande.

## 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           |
|  | over front / over rear $\pm 10^\circ$<br>en avant / en arrière $\pm 10^\circ$ |  | Standard<br>Norme                                             |
|  | Driving speed<br>Vitesse de translation                                       |  | Gradability<br>Aptitude à gravir les pentes                   |
|  | Counterweight<br>Contrepoids                                                  |  | Driving force<br>Puissance propulsive                         |
|  | Central ballast<br>Contrepoids central                                        |  |                                                               |

### Crane specific symbols Symboles spécifiques à la grue

|  |                                        |  |                                     |
|--|----------------------------------------|--|-------------------------------------|
|  | Telescopic boom<br>Flèche télescopique |  | Swing away jib<br>Fléchette pliante |
|  | Erection jib<br>Fléchette de montage   |  |                                     |



**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 m<sup>2</sup> 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. Lifting capacities are given in kips.
4. The weight of the hook blocks and hooks is part of the load and therefore it must be deducted from the lifting capacities.
5. Working radii are measured from the slewing centre.
6. The lifting capacities given for the telescopic boom apply if the folding jib is removed.
7. Lifting capacities above 93250 lbs / 126500 lbs only with additional pulley block/special equipment.
8. Lateral inclination  $\pm 0.3^\circ$ .
9. 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.

**Remarques relatives aux tableaux des charges**

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, 20.1 mph) minimum, une surface de prise au vent de 1 m<sup>2</sup> 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. Les charges sont indiquées en kips.
4. 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.
5. Les portées sont calculées à partir de l'axe de rotation.
6. Les charges indiquées pour la flèche télescopique sont valables lorsque la fléchette pliante est démontée.
7. Les charges supérieures à 93250 lbs / 126500 lbs seulement avec moufle additionnel/équipement supplémentaire.
8. Inclinaison latérale  $\pm 0,3^\circ$ .
9. 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.

Subject to modification / Sous réserve de modifications

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