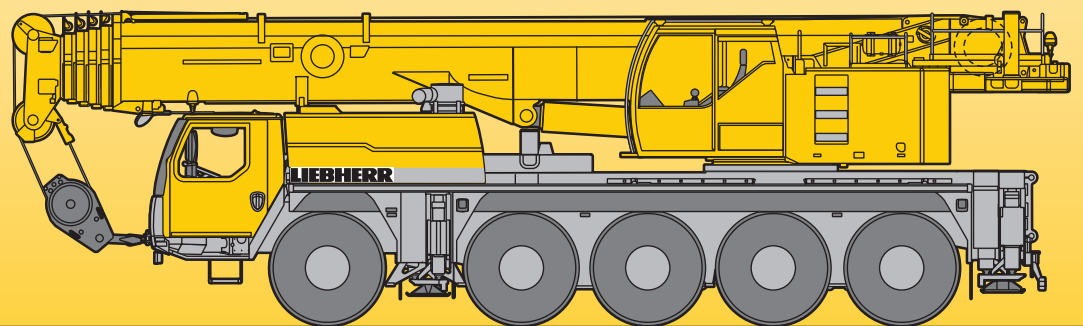


# Mobile Crane Grue mobile

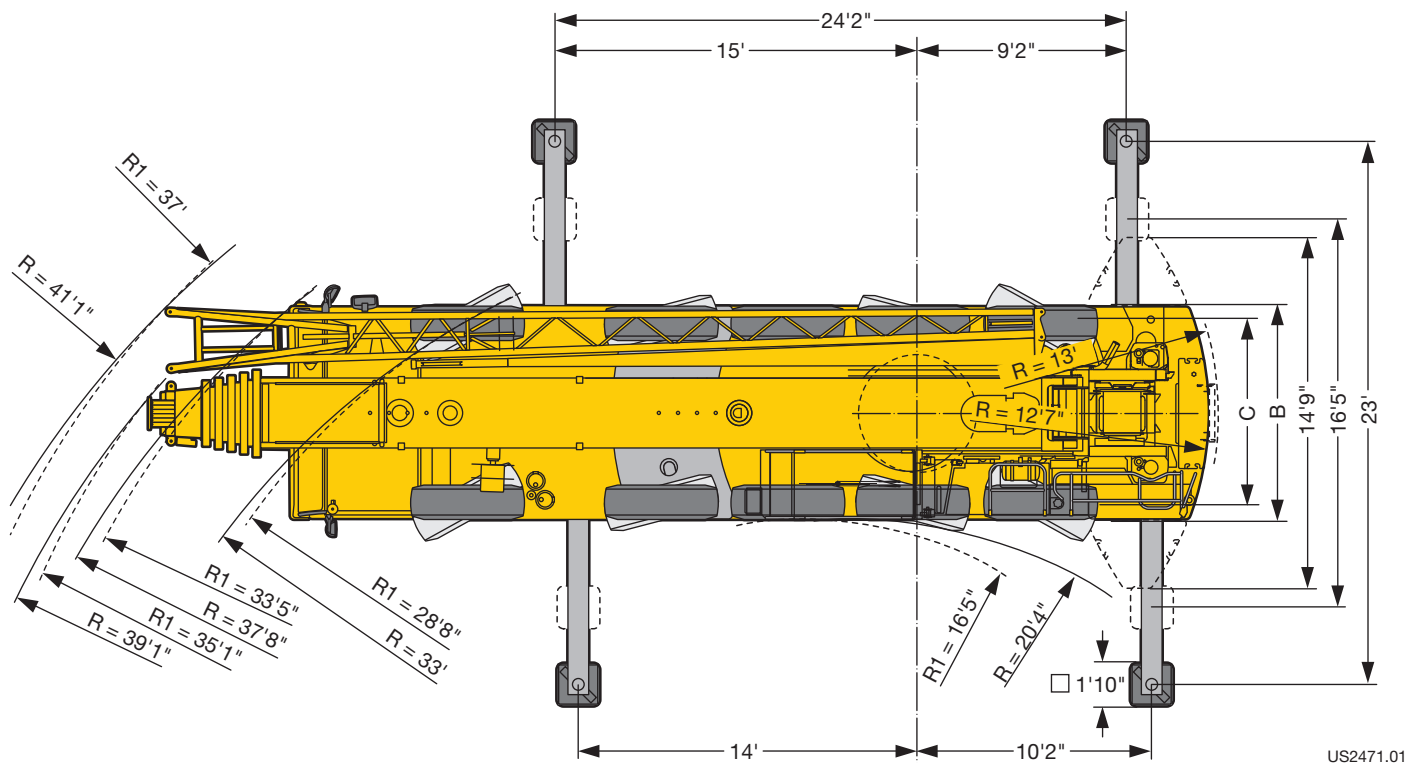
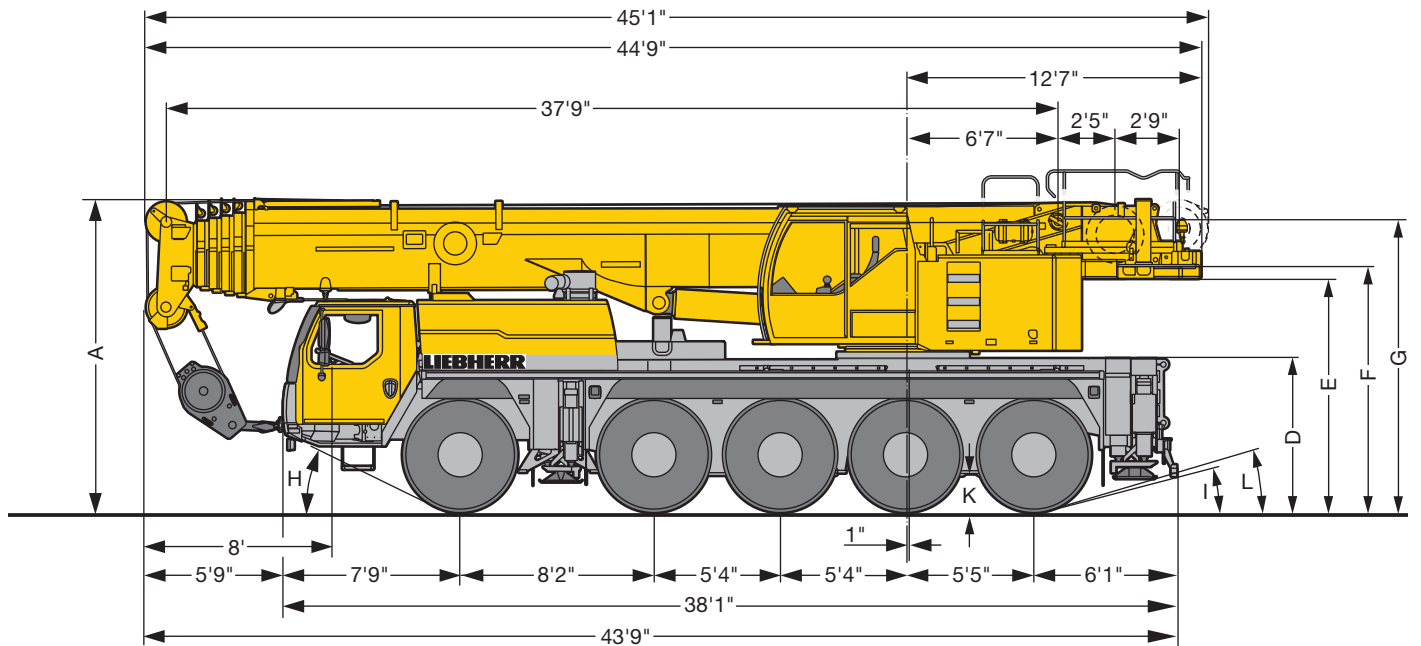
# LTM 1100-5.2

## Technical Data Caractéristiques techniques



# LIEBHERR

# Dimensions Encombrement



US2471.01

|                          | Dimensions - Encombrement |           |      |      |      |      |       |       |     |     |      |     |
|--------------------------|---------------------------|-----------|------|------|------|------|-------|-------|-----|-----|------|-----|
|                          | A                         | A<br>4" * | B    | C    | D    | E    | F     | G     | H   | I   | K    | L   |
| 445/95 R 25 (16.00 R 25) | 13'1"                     | 12'10"    | 9'   | 7'7" | 6'4" | 9'9" | 10'3" | 12'2" | 24° | 13° | 1'5" | 16° |
| 525/80 R 25 (20.5 R 25)  | 13'1"                     | 12'10"    | 9'9" | 7'7" | 6'4" | 9'9" | 10'3" | 12'2" | 24° | 13° | 1'5" | 16° |

\* lowered · abaissé

## Weights Poids



| Axle<br>Essieu | 1     | 2     | 3     | 4     | 5     | Total weight<br>Poids total |
|----------------|-------|-------|-------|-------|-------|-----------------------------|
| lbs            | 26400 | 26400 | 26400 | 26400 | 26400 | 132000 <sup>1)</sup>        |

<sup>1)</sup> with 25350 lbs counterweight and double folding jib · avec contrepoids 25350 lbs et flèche pliante double



| Load kips<br>Forces de levage kips | No. of sheaves<br>Poulies | No. of lines<br>Brins | Weight lbs<br>Poids lbs |
|------------------------------------|---------------------------|-----------------------|-------------------------|
| 220                                | 7                         | 14                    | 2730                    |
| 200                                | 5                         | 10                    | 1540                    |
| 130.2                              | 3                         | 7                     | 1100                    |
| 57.5                               | 1                         | 3                     | 990                     |
| 19.4                               | –                         | 1                     | 550                     |

## Working speeds Vitesses







|                             |  | 1   | 2   | 3   | 4   | 5   | 6    | 7    | 8    | 9    | 10   | 11   | 12   | R 1 | R 2 |      |
|-----------------------------|--|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|-----|-----|------|
| 445/95 R 25<br>(16.00 R 25) |  | 3.5 | 4.5 | 5.8 | 7.5 | 9.5 | 12.2 | 16.1 | 20.6 | 26.6 | 34.2 | 43.4 | 50   | 3.8 | 4.9 | 43 % |
| 525/80 R 25<br>(20.5 R 25)  |  | 1.6 | 2   | 2.6 | 3.3 | 4.2 | 5.3  | 7    | 9    | 11.6 | 14.9 | 19.5 | 24.2 | 1.7 | 2.1 | 56 % |



| Drive<br>Mécanismes | infinitely variable<br>en continu  | Rope diameter / Rope length<br>Diam. du câble / Longueur du câble | Max. single line pull<br>Effort au brin maxi. |
|---------------------|--|---|---|
|                     | 0 - 426 ft/min single line<br>ft/min au brin simple  | 0.83"/656'  | 19400 lbs                                     |
|                     | 0 - 426 ft/min single line<br>ft/min au brin simple  | 0.83"/656'  | 19400 lbs                                     |
|                     | 0 - 2 rpm  |   |   |
|                     | approx. 40 seconds to reach 82° boom angle<br>env. 40 s jusqu'à 82°                                    |   |   |
|                     | approx. 360 seconds for boom extension from 38 ft – 171 ft<br>env. 360 s pour passer de 38 ft – 171 ft |   |   |

# Lifting capacities Forces de levage

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38 - 171 ft     **85%**



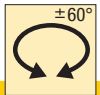


| ft  | 38 ft 50 ft 62 ft 74 ft 87 ft 99 ft 111 ft 123 ft 135 ft 148 ft 160 ft 171 ft |       |       |       |       |       |       |      |      |      |      |      | ft   |     |
|-----|---|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|-----|
|     | *   |       |       |       |       |       |       |      |      |      |      |      |      |     |
| 9   | 214   |       |       |       |       |       |       |      |      |      |      |      | 9    |     |
| 10  | 206.5   | 182.1 |       |       |       |       |       |      |      |      |      |      | 10   |     |
| 11  | 195.7   | 182.1 |       |       |       |       |       |      |      |      |      |      | 11   |     |
| 12  | 183.6   | 181.8 | 158.3 | 149.5 |       |       |       |      |      |      |      |      | 12   |     |
| 13  | 173   | 176.9 | 159.5 | 150.3 | 147   |       |       |      |      |      |      |      | 13   |     |
| 14  | 163.4   | 168.2 | 159   | 150.6 | 145.1 |       |       |      |      |      |      |      | 14   |     |
| 15  | 154.8   | 158.9 | 151.9 | 145.3 | 140.5 | 123.9 |       |      |      |      |      |      | 15   |     |
| 16  | 147   | 150.7 | 144.4 | 136.8 | 131.8 | 120.8 |       |      |      |      |      |      | 16   |     |
| 17  | 139.5   | 144.3 | 137.9 | 132.9 | 127.9 | 118   | 100.4 |      |      |      |      |      | 17   |     |
| 18  | 132.3   | 138.6 | 132.9 | 127.8 | 123.4 | 115.3 | 98.4  |      |      |      |      |      | 18   |     |
| 19  | 125.6   | 132.6 | 128.1 | 123.3 | 118.8 | 112.5 | 96.4  |      |      |      |      |      | 19   |     |
| 20  | 119.4   | 126.7 | 123.6 | 118.8 | 114.5 | 110.9 | 94.7  | 79.1 | 67.3 |      |      |      | 20   |     |
| 22  | 108.7   | 116.2 | 115.7 | 111   | 106.8 | 105.2 | 91.4  | 76.6 | 65.4 |      |      |      | 22   |     |
| 24  | 99.3  | 106.2 | 106.8 | 104.2 | 100.1 | 98.5  | 88.5  | 74   | 63.5 | 53.5 |      |      | 24   |     |
| 26  | 91  | 96.8  | 98.5  | 97.8  | 94.2  | 92.6  | 85.7  | 71.3 | 61.7 | 52.1 | 45.6 |      | 26   |     |
| 28  | 84.1  | 89    | 90.6  | 89.9  | 88.4  | 87.5  | 83.1  | 68.8 | 59.7 | 50.6 | 44.8 |      | 28   |     |
| 30  | 77  | 82.1  | 83.8  | 83.1  | 84.1  | 82.5  | 80.7  | 66.4 | 57.7 | 49.2 | 43.6 | 35   | 30   |     |
| 32  |   |       | 77.7  | 77    | 79.8  | 78.3  | 76.8  | 63.9 | 55.7 | 47.8 | 42.4 | 34.3 | 32   |     |
| 34  |   |       | 72.3  | 71.6  | 74.4  | 73.9  | 72.4  | 61.1 | 53.5 | 46.5 | 41.4 | 33.7 | 27.6 | 34  |
| 36  |   |       | 67.3  | 66.5  | 69.6  | 69.2  | 67.5  | 58.6 | 51.4 | 45.3 | 40.5 | 33.1 | 27   | 36  |
| 38  |   |       | 62.8  | 63.8  | 64.9  | 64.6  | 63.1  | 56.1 | 49.4 | 43.8 | 39.5 | 32.6 | 26.5 | 38  |
| 40  |   |       | 59.2  | 60.5  | 60.8  | 60.4  | 59.1  | 53.8 | 47.5 | 42.3 | 38.6 | 32   | 26   | 40  |
| 45  |   |       |       | 52.1  | 52.3  | 51.8  | 51    | 49.2 | 43.2 | 38.8 | 35.9 | 30.8 | 24.9 | 45  |
| 50  |   |       |       | 45.3  | 45.6  | 45.1  | 44.3  | 43.2 | 39.5 | 35.6 | 33.3 | 29.6 | 23.8 | 50  |
| 55  |   |       |       | 39.4  | 39.9  | 39.4  | 38.6  | 39.2 | 36.1 | 32.8 | 30.8 | 28   | 22.9 | 55  |
| 60  |   |       |       |       | 35.2  | 34.8  | 34.2  | 35   | 33.2 | 30.3 | 28.6 | 26.3 | 22   | 60  |
| 65  |   |       |       |       | 31.4  | 30.9  | 31.7  | 31   | 29.9 | 28.1 | 26.6 | 24.6 | 21.1 | 65  |
| 70  |   |       |       |       |       | 27.6  | 28.7  | 27.7 | 26.8 | 25.8 | 24.8 | 23   | 20.2 | 70  |
| 75  |   |       |       |       |       | 24.9  | 25.8  | 24.9 | 24   | 24.1 | 23.1 | 21.7 | 19.3 | 75  |
| 80  |   |       |       |       |       | 21.2  | 23.3  | 22.4 | 22.7 | 22.1 | 21.1 | 20.3 | 18.3 | 80  |
| 85  |   |       |       |       |       |       | 21.2  | 20.8 | 20.8 | 20   | 19.9 | 19   | 17.3 | 85  |
| 90  |   |       |       |       |       |       | 19.4  | 19.5 | 18.9 | 18.7 | 18.7 | 17.9 | 16.2 | 90  |
| 95  |   |       |       |       |       |       |       | 18.1 | 17.2 | 17.2 | 17.1 | 16.3 | 15.3 | 95  |
| 100 |   |       |       |       |       |       |       | 16.6 | 15.9 | 15.7 | 15.6 | 14.8 | 14.4 | 100 |
| 105 |   |       |       |       |       |       |       |      | 15   | 14.5 | 14.3 | 13.6 | 13.5 | 105 |
| 110 |   |       |       |       |       |       |       |      | 13.9 | 13.4 | 13.1 | 12.5 | 12.5 | 110 |
| 115 |   |       |       |       |       |       |       |      | 13   | 12.5 | 12.2 | 11.6 | 11.6 | 115 |
| 120 |   |       |       |       |       |       |       |      |      | 11.6 | 11.3 | 10.7 | 10.7 | 120 |
| 125 |   |       |       |       |       |       |       |      |      | 10.9 | 10.5 | 9.9  | 9.9  | 125 |
| 130 |   |       |       |       |       |       |       |      |      |      | 9.8  | 9.1  | 9.2  | 130 |
| 135 |   |       |       |       |       |       |       |      |      |      | 9.1  | 8.4  | 8.4  | 135 |
| 140 |   |       |       |       |       |       |       |      |      |      | 8.5  | 7.7  | 7.7  | 140 |
| 145 |   |       |       |       |       |       |       |      |      |      |      | 7    | 7    | 145 |
| 150 |   |       |       |       |       |       |       |      |      |      |      | 6.4  | 6.4  | 150 |
| 155 |   |       |       |       |       |       |       |      |      |      |      |      | 5.8  | 155 |
| 160 |   |       |       |       |       |       |       |      |      |      |      |      | 5.3  | 160 |

\* over rear / en arrière

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# Lifting capacities Forces de levage

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

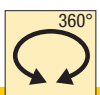








|     | 38 ft | 50 ft | 62 ft | 74 ft | 87 ft | 99 ft | 111 ft | 123 ft | 135 ft | 148 ft | 160 ft | 171 ft |     |
|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-----|
| 10  | 182.1 |       |       |       |       |       |        |        |        |        |        |        | 10  |
| 11  | 182.1 |       |       |       |       |       |        |        |        |        |        |        | 11  |
| 12  | 181.9 | 158.3 | 149.5 |       |       |       |        |        |        |        |        |        | 12  |
| 13  | 179   | 159.5 | 150.3 | 147   |       |       |        |        |        |        |        |        | 13  |
| 14  | 169.5 | 159   | 150.6 | 145.1 |       |       |        |        |        |        |        |        | 14  |
| 15  | 159.2 | 151.9 | 145.3 | 140.5 | 123.9 |       |        |        |        |        |        |        | 15  |
| 16  | 150.7 | 144.4 | 136.8 | 131.8 | 120.8 |       |        |        |        |        |        |        | 16  |
| 17  | 144.3 | 137.9 | 132.9 | 127.9 | 118   | 100.4 |        |        |        |        |        |        | 17  |
| 18  | 138.9 | 132.9 | 127.8 | 123.4 | 115.3 | 98.4  |        |        |        |        |        |        | 18  |
| 19  | 133.9 | 128.1 | 123.3 | 118.8 | 112.5 | 96.4  |        |        |        |        |        |        | 19  |
| 20  | 128.5 | 123.6 | 118.8 | 114.5 | 110.9 | 94.7  | 79.1   | 67.3   |        |        |        |        | 20  |
| 22  | 117.6 | 115.7 | 111   | 106.8 | 105.2 | 91.4  | 76.6   | 65.4   |        |        |        |        | 22  |
| 24  | 107.6 | 108   | 104.2 | 100.1 | 98.5  | 88.5  | 74     | 63.5   | 53.5   |        |        |        | 24  |
| 26  | 98.4  | 99.7  | 98    | 94.2  | 92.6  | 85.7  | 71.3   | 61.7   | 52.1   | 45.6   |        |        | 26  |
| 28  | 90.4  | 92    | 91.3  | 88.9  | 87.5  | 83.1  | 68.8   | 59.7   | 50.6   | 44.8   |        |        | 28  |
| 30  | 82.8  | 85    | 84.2  | 84.2  | 82.7  | 80.7  | 66.4   | 57.7   | 49.2   | 43.6   | 35     |        | 30  |
| 32  |       | 78.4  | 77.7  | 80.2  | 78.3  | 76.8  | 63.9   | 55.7   | 47.8   | 42.4   | 34.3   |        | 32  |
| 34  |       | 72.5  | 71.8  | 74.8  | 74    | 72.4  | 61.1   | 53.5   | 46.5   | 41.4   | 33.7   | 27.6   | 34  |
| 36  |       | 67.3  | 66.6  | 69.6  | 69.3  | 67.5  | 58.6   | 51.4   | 45.3   | 40.5   | 33.1   | 27     | 36  |
| 38  |       | 62.8  | 63.8  | 65    | 64.6  | 63.1  | 56.1   | 49.4   | 43.8   | 39.5   | 32.6   | 26.5   | 38  |
| 40  |       | 59.2  | 60.5  | 60.8  | 60.4  | 59.1  | 53.8   | 47.5   | 42.3   | 38.6   | 32     | 26     | 40  |
| 45  |       |       | 52.1  | 52.2  | 51.8  | 51    | 49.2   | 43.2   | 38.8   | 35.9   | 30.8   | 24.9   | 45  |
| 50  |       |       | 45.3  | 45.5  | 45    | 44.3  | 43.2   | 39.5   | 35.6   | 33.3   | 29.6   | 23.8   | 50  |
| 55  |       |       | 39.4  | 40    | 39.6  | 38.7  | 39.2   | 36.1   | 32.8   | 30.8   | 28     | 22.9   | 55  |
| 60  |       |       |       | 35.5  | 35.1  | 34.4  | 35.2   | 33.2   | 30.3   | 28.6   | 26.3   | 22     | 60  |
| 65  |       |       |       | 31.6  | 31.1  | 31.9  | 31.2   | 29.9   | 28.1   | 26.6   | 24.6   | 21.1   | 65  |
| 70  |       |       |       |       | 27.8  | 28.8  | 27.9   | 26.9   | 25.8   | 24.8   | 23     | 20.2   | 70  |
| 75  |       |       |       |       | 25    | 25.9  | 25     | 24.1   | 24.1   | 23.1   | 21.7   | 19.3   | 75  |
| 80  |       |       |       |       | 21.2  | 23.4  | 22.5   | 22.7   | 22.2   | 21.1   | 20.3   | 18.3   | 80  |
| 85  |       |       |       |       |       | 21.3  | 20.9   | 20.9   | 20     | 19.9   | 19     | 17.3   | 85  |
| 90  |       |       |       |       |       | 19.4  | 19.5   | 18.9   | 18.7   | 18.7   | 17.9   | 16.2   | 90  |
| 95  |       |       |       |       |       |       | 18.1   | 17.3   | 17.3   | 17.1   | 16.4   | 15.3   | 95  |
| 100 |       |       |       |       |       |       | 16.6   | 15.9   | 15.8   | 15.6   | 14.9   | 14.4   | 100 |
| 105 |       |       |       |       |       |       |        | 15     | 14.5   | 14.3   | 13.6   | 13.5   | 105 |
| 110 |       |       |       |       |       |       |        | 14     | 13.4   | 13.1   | 12.5   | 12.5   | 110 |
| 115 |       |       |       |       |       |       |        | 13     | 12.5   | 12.2   | 11.6   | 11.6   | 115 |
| 120 |       |       |       |       |       |       |        |        | 11.6   | 11.3   | 10.7   | 10.7   | 120 |
| 125 |       |       |       |       |       |       |        |        | 10.9   | 10.5   | 9.9    | 9.9    | 125 |
| 130 |       |       |       |       |       |       |        |        |        | 9.8    | 9.1    | 9.2    | 130 |
| 135 |       |       |       |       |       |       |        |        |        | 9.1    | 8.4    | 8.4    | 135 |
| 140 |       |       |       |       |       |       |        |        |        | 8.5    | 7.7    | 7.7    | 140 |
| 145 |       |       |       |       |       |       |        |        |        |        | 7      | 7      | 145 |
| 150 |       |       |       |       |       |       |        |        |        |        | 6.4    | 6.4    | 150 |
| 155 |       |       |       |       |       |       |        |        |        |        |        | 5.8    | 155 |
| 160 |       |       |       |       |       |       |        |        |        |        |        | 5.3    | 160 |

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# Lifting capacities Forces de levage

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

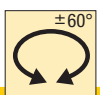








|     | 38 ft | 50 ft | 62 ft | 74 ft | 87 ft | 99 ft | 111 ft | 123 ft | 135 ft | 148 ft | 160 ft | 171 ft |     |
|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-----|
| 10  | 182.1 |       |       |       |       |       |        |        |        |        |        |        | 10  |
| 11  | 182.1 |       |       |       |       |       |        |        |        |        |        |        | 11  |
| 12  | 181.7 | 158.3 | 149.5 |       |       |       |        |        |        |        |        |        | 12  |
| 13  | 174.9 | 159.5 | 150.3 | 147   |       |       |        |        |        |        |        |        | 13  |
| 14  | 166.2 | 159   | 150.6 | 145.1 |       |       |        |        |        |        |        |        | 14  |
| 15  | 157.9 | 151.9 | 145.3 | 140.5 | 123.9 |       |        |        |        |        |        |        | 15  |
| 16  | 150   | 144.4 | 136.8 | 131.8 | 120.8 |       |        |        |        |        |        |        | 16  |
| 17  | 142.5 | 137.9 | 132.9 | 127.9 | 118   | 100.4 |        |        |        |        |        |        | 17  |
| 18  | 135.6 | 132.9 | 127.8 | 123.4 | 115.3 | 98.4  |        |        |        |        |        |        | 18  |
| 19  | 128.9 | 127.9 | 123.3 | 118.8 | 112.5 | 96.4  |        |        |        |        |        |        | 19  |
| 20  | 122.1 | 122.9 | 118.8 | 114.5 | 110.9 | 94.7  | 79.1   | 67.3   |        |        |        |        | 20  |
| 22  | 110   | 110.7 | 110.8 | 106.8 | 105.2 | 91.4  | 76.6   | 65.4   |        |        |        |        | 22  |
| 24  | 99.7  | 101.3 | 100.5 | 98.3  | 97.1  | 88.5  | 74     | 63.5   | 53.5   |        |        |        | 24  |
| 26  | 90.8  | 92.5  | 91.8  | 92.2  | 89.6  | 84.6  | 71.3   | 61.7   | 52.1   | 45.6   |        |        | 26  |
| 28  | 82.9  | 84.6  | 83.9  | 86    | 81.9  | 77.3  | 68.8   | 59.7   | 50.6   | 44.8   |        |        | 28  |
| 30  | 75.7  | 77.6  | 76.8  | 78.8  | 75    | 70.9  | 66     | 57.7   | 49.2   | 43.6   | 35     |        | 30  |
| 32  |       | 71.3  | 72.2  | 72.5  | 69    | 65.6  | 61.8   | 55.7   | 47.8   | 42.4   | 34.3   |        | 32  |
| 34  |       | 65.9  | 67.8  | 67    | 64    | 60.6  | 58.3   | 53.5   | 46.5   | 41.4   | 33.7   | 27.6   | 34  |
| 36  |       | 61.7  | 63.1  | 62.3  | 59.6  | 56.5  | 54.5   | 51.1   | 45.3   | 40.5   | 33.1   | 27     | 36  |
| 38  |       | 57.3  | 58.7  | 58.1  | 55.5  | 52.9  | 50.8   | 48.2   | 43.8   | 39.5   | 32.6   | 26.5   | 38  |
| 40  |       | 53.3  | 54.7  | 54.3  | 51.9  | 49.6  | 48.4   | 45.4   | 42.3   | 38.6   | 32     | 26     | 40  |
| 45  |       |       | 46.5  | 46.6  | 44.6  | 42.9  | 42.3   | 40.1   | 38.1   | 35.9   | 30.8   | 24.9   | 45  |
| 50  |       |       | 40    | 40.2  | 38.8  | 39.1  | 36.9   | 34.8   | 34.1   | 32.7   | 29.6   | 23.8   | 50  |
| 55  |       |       | 34.9  | 35.1  | 34.2  | 34.5  | 32.5   | 31     | 30.6   | 29     | 28     | 22.9   | 55  |
| 60  |       |       |       | 30.9  | 30.7  | 30.7  | 29.2   | 28.3   | 27.2   | 27     | 25.8   | 22     | 60  |
| 65  |       |       |       | 27.4  | 27.1  | 27.7  | 26.5   | 25.9   | 25.3   | 24.6   | 23.3   | 21.1   | 65  |
| 70  |       |       |       |       | 24.2  | 24.9  | 24     | 23.3   | 22.8   | 22.2   | 20.9   | 20.2   | 70  |
| 75  |       |       |       |       | 21.6  | 22.3  | 22.5   | 21.1   | 20.8   | 20.1   | 18.8   | 18.5   | 75  |
| 80  |       |       |       |       | 19.5  | 20.1  | 20.5   | 19.8   | 19     | 18.2   | 16.9   | 16.7   | 80  |
| 85  |       |       |       |       |       | 18.7  | 18.5   | 18.4   | 17.3   | 16.5   | 15.3   | 15.1   | 85  |
| 90  |       |       |       |       |       | 17.4  | 16.8   | 16.6   | 15.8   | 15.1   | 13.8   | 13.6   | 90  |
| 95  |       |       |       |       |       |       | 15.2   | 15     | 14.3   | 13.7   | 12.6   | 12.3   | 95  |
| 100 |       |       |       |       |       |       | 14     | 13.7   | 12.9   | 12.5   | 11.4   | 11.2   | 100 |
| 105 |       |       |       |       |       |       |        | 12.5   | 11.8   | 11.4   | 10.4   | 10.2   | 105 |
| 110 |       |       |       |       |       |       |        | 11.5   | 10.8   | 10.4   | 9.4    | 9.2    | 110 |
| 115 |       |       |       |       |       |       |        | 10.6   | 9.9    | 9.4    | 8.6    | 8.4    | 115 |
| 120 |       |       |       |       |       |       |        |        | 9.1    | 8.6    | 7.8    | 7.6    | 120 |
| 125 |       |       |       |       |       |       |        |        | 8.4    | 7.9    | 7      | 6.9    | 125 |
| 130 |       |       |       |       |       |       |        |        |        | 7.1    | 6.3    | 6.2    | 130 |
| 135 |       |       |       |       |       |       |        |        |        | 6.4    | 5.6    | 5.6    | 135 |
| 140 |       |       |       |       |       |       |        |        |        | 5.8    | 4.9    | 4.9    | 140 |
| 145 |       |       |       |       |       |       |        |        |        |        | 4.4    | 4.4    | 145 |
| 150 |       |       |       |       |       |       |        |        |        |        | 3.8    | 3.8    | 150 |
| 155 |       |       |       |       |       |       |        |        |        |        |        | 3.3    | 155 |
| 160 |       |       |       |       |       |       |        |        |        |        |        | 2.9    | 160 |

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# Lifting capacities Forces de levage

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

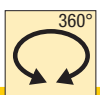








|     | 38 ft | 50 ft | 62 ft | 74 ft | 87 ft | 99 ft | 111 ft | 123 ft | 135 ft | 148 ft | 160 ft | 171 ft |     |
|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-----|
| 10  | 182.1 |       |       |       |       |       |        |        |        |        |        |        | 10  |
| 11  | 182.1 |       |       |       |       |       |        |        |        |        |        |        | 11  |
| 12  | 181.9 | 158.3 | 149.5 |       |       |       |        |        |        |        |        |        | 12  |
| 13  | 177.9 | 159.5 | 150.3 | 147   |       |       |        |        |        |        |        |        | 13  |
| 14  | 169.3 | 159   | 150.6 | 145.1 |       |       |        |        |        |        |        |        | 14  |
| 15  | 159.2 | 151.9 | 145.3 | 140.5 | 123.9 |       |        |        |        |        |        |        | 15  |
| 16  | 150.7 | 144.4 | 136.8 | 131.8 | 120.8 |       |        |        |        |        |        |        | 16  |
| 17  | 144   | 137.9 | 132.9 | 127.9 | 118   | 100.4 |        |        |        |        |        |        | 17  |
| 18  | 137.4 | 132.9 | 127.8 | 123.4 | 115.3 | 98.4  |        |        |        |        |        |        | 18  |
| 19  | 130.4 | 128.1 | 123.3 | 118.8 | 112.5 | 96.4  |        |        |        |        |        |        | 19  |
| 20  | 123.8 | 123.5 | 118.8 | 114.5 | 110.9 | 94.7  | 79.1   | 67.3   |        |        |        |        | 20  |
| 22  | 111.8 | 112.5 | 110.9 | 106.8 | 105.2 | 91.4  | 76.6   | 65.4   |        |        |        |        | 22  |
| 24  | 101.1 | 102.8 | 102.1 | 98.3  | 97.1  | 88.5  | 74     | 63.5   | 53.5   |        |        |        | 24  |
| 26  | 91.1  | 93.1  | 92.3  | 92.2  | 89.6  | 84.6  | 71.3   | 61.7   | 52.1   | 45.6   |        |        | 26  |
| 28  | 82.9  | 84.7  | 83.9  | 86    | 81.9  | 77.3  | 68.8   | 59.7   | 50.6   | 44.8   |        |        | 28  |
| 30  | 75.6  | 77.6  | 76.8  | 78.8  | 75    | 70.9  | 66     | 57.7   | 49.2   | 43.6   | 35     |        | 30  |
| 32  |       | 71.2  | 72.2  | 72.5  | 69    | 65.6  | 61.8   | 55.7   | 47.8   | 42.4   | 34.3   |        | 32  |
| 34  |       | 65.8  | 67.8  | 67    | 64    | 60.6  | 58.3   | 53.5   | 46.5   | 41.4   | 33.7   | 27.6   | 34  |
| 36  |       | 61.8  | 63    | 62.3  | 59.6  | 56.5  | 54.5   | 51.1   | 45.3   | 40.5   | 33.1   | 27     | 36  |
| 38  |       | 57.5  | 58.8  | 58.1  | 55.5  | 52.9  | 50.8   | 48.2   | 43.8   | 39.5   | 32.6   | 26.5   | 38  |
| 40  |       | 53.7  | 55.1  | 54.3  | 51.9  | 49.6  | 48.4   | 45.4   | 42.3   | 38.6   | 32     | 26     | 40  |
| 45  |       |       | 46.8  | 46.7  | 44.6  | 42.9  | 42.3   | 40.1   | 38.1   | 35.9   | 30.8   | 24.9   | 45  |
| 50  |       |       | 40.2  | 40.4  | 38.8  | 39.1  | 36.9   | 34.8   | 34.1   | 32.7   | 29.6   | 23.8   | 50  |
| 55  |       |       | 35    | 35.2  | 34.2  | 34.5  | 32.5   | 31     | 30.6   | 29     | 28     | 22.9   | 55  |
| 60  |       |       |       | 30.9  | 30.7  | 30.7  | 29.2   | 28.3   | 27.2   | 27     | 25.8   | 22     | 60  |
| 65  |       |       |       | 27.4  | 27.1  | 27.7  | 26.5   | 25.9   | 25.3   | 24.6   | 23.3   | 21.1   | 65  |
| 70  |       |       |       |       | 24.1  | 24.9  | 24     | 23.3   | 22.8   | 22.2   | 20.9   | 20.2   | 70  |
| 75  |       |       |       |       | 21.6  | 22.3  | 22.5   | 21.1   | 20.8   | 20.1   | 18.8   | 18.5   | 75  |
| 80  |       |       |       |       | 19.4  | 20.1  | 20.5   | 19.8   | 19     | 18.3   | 17     | 16.8   | 80  |
| 85  |       |       |       |       |       | 18.7  | 18.5   | 18.4   | 17.3   | 16.6   | 15.4   | 15.2   | 85  |
| 90  |       |       |       |       |       | 17.4  | 16.8   | 16.6   | 15.9   | 15.2   | 14     | 13.8   | 90  |
| 95  |       |       |       |       |       |       | 15.3   | 15.1   | 14.4   | 13.9   | 12.7   | 12.5   | 95  |
| 100 |       |       |       |       |       |       | 14.1   | 13.7   | 13     | 12.6   | 11.6   | 11.4   | 100 |
| 105 |       |       |       |       |       |       |        | 12.6   | 11.9   | 11.5   | 10.6   | 10.3   | 105 |
| 110 |       |       |       |       |       |       |        | 11.6   | 10.9   | 10.5   | 9.6    | 9.4    | 110 |
| 115 |       |       |       |       |       |       |        | 10.8   | 10     | 9.6    | 8.8    | 8.6    | 115 |
| 120 |       |       |       |       |       |       |        |        | 9.3    | 8.8    | 8      | 7.8    | 120 |
| 125 |       |       |       |       |       |       |        |        | 8.5    | 8      | 7.2    | 7.1    | 125 |
| 130 |       |       |       |       |       |       |        |        |        | 7.3    | 6.4    | 6.4    | 130 |
| 135 |       |       |       |       |       |       |        |        |        | 6.6    | 5.7    | 5.8    | 135 |
| 140 |       |       |       |       |       |       |        |        |        | 6      | 5.1    | 5.1    | 140 |
| 145 |       |       |       |       |       |       |        |        |        |        | 4.5    | 4.5    | 145 |
| 150 |       |       |       |       |       |       |        |        |        |        | 4      | 4      | 150 |
| 155 |       |       |       |       |       |       |        |        |        |        |        | 3.5    | 155 |
| 160 |       |       |       |       |       |       |        |        |        |        |        | 3.1    | 160 |

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# Lifting capacities Forces de levage

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

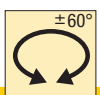


|     | 38 ft | 50 ft | 62 ft | 74 ft | 87 ft | 99 ft | 111 ft | 123 ft | 135 ft | 148 ft | 160 ft | 171 ft |     |
|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-----|
| 10  | 180.5 |       |       |       |       |       |        |        |        |        |        |        | 10  |
| 11  | 175.2 |       |       |       |       |       |        |        |        |        |        |        | 11  |
| 12  | 165.2 | 143.9 | 135.9 |       |       |       |        |        |        |        |        |        | 12  |
| 13  | 155.9 | 145   | 136.7 | 133.6 |       |       |        |        |        |        |        |        | 13  |
| 14  | 147.1 | 144.5 | 137.4 | 131.9 |       |       |        |        |        |        |        |        | 14  |
| 15  | 138.9 | 138.1 | 137.6 | 128.5 | 112.6 |       |        |        |        |        |        |        | 15  |
| 16  | 130.3 | 130.3 | 129.4 | 124.2 | 109.8 |       |        |        |        |        |        |        | 16  |
| 17  | 122   | 122.7 | 121.9 | 119.9 | 107.2 | 91.2  |        |        |        |        |        |        | 17  |
| 18  | 114.6 | 115.5 | 115.4 | 113.7 | 104   | 89.5  |        |        |        |        |        |        | 18  |
| 19  | 108   | 108.9 | 109.1 | 105.6 | 99.6  | 87.7  |        |        |        |        |        |        | 19  |
| 20  | 102   | 103.5 | 102.8 | 98.2  | 95.1  | 86.1  | 71.9   | 61.1   |        |        |        |        | 20  |
| 22  | 90.7  | 92.4  | 91.5  | 91.5  | 86.4  | 80.3  | 69.7   | 59.5   |        |        |        |        | 22  |
| 24  | 81    | 82.6  | 81.8  | 82.1  | 77.3  | 72.3  | 66.8   | 57.7   | 48.6   |        |        |        | 24  |
| 26  | 72.4  | 74.3  | 76.4  | 73.9  | 69.7  | 65.4  | 61.5   | 56.1   | 47.3   | 41.5   |        |        | 26  |
| 28  | 65.1  | 67.3  | 69.1  | 67    | 63.4  | 59.5  | 56.9   | 53.1   | 46     | 40.7   |        |        | 28  |
| 30  | 58    | 61.2  | 62.5  | 61.1  | 57.9  | 54.8  | 52.2   | 49.1   | 44.8   | 39.6   | 31.8   |        | 30  |
| 32  |       | 54.7  | 56.3  | 55.9  | 53.1  | 50.5  | 49.2   | 46.3   | 43.4   | 38.6   | 31.2   |        | 32  |
| 34  |       | 49.4  | 50.9  | 51.2  | 49.1  | 47.2  | 45.9   | 43.1   | 40.6   | 37.6   | 30.6   | 25.1   | 34  |
| 36  |       | 44.9  | 46.3  | 46.7  | 45.5  | 44.9  | 42.6   | 39.8   | 38.1   | 36.3   | 30.1   | 24.6   | 36  |
| 38  |       | 41.1  | 42.5  | 42.8  | 42.5  | 42.2  | 39.5   | 37.5   | 36.4   | 34.4   | 29.6   | 24.1   | 38  |
| 40  |       | 37.8  | 39.2  | 39.4  | 39.3  | 39.3  | 37.2   | 35.7   | 34.1   | 32     | 29.1   | 23.7   | 40  |
| 45  |       |       | 32.3  | 32.6  | 32.5  | 33.3  | 31.9   | 30.5   | 29.3   | 29.1   | 27.2   | 22.6   | 45  |
| 50  |       |       | 27.1  | 28.4  | 27.2  | 28    | 27.8   | 27.5   | 26.3   | 25.2   | 23.5   | 21.7   | 50  |
| 55  |       |       | 23.1  | 24.3  | 23.1  | 24.4  | 24.4   | 24.2   | 22.9   | 21.9   | 20.5   | 20     | 55  |
| 60  |       |       |       | 21    | 20.6  | 21.6  | 21.3   | 21.1   | 20     | 19.2   | 17.8   | 17.4   | 60  |
| 65  |       |       |       | 18.4  | 18.5  | 18.9  | 18.6   | 18.4   | 17.7   | 16.9   | 15.6   | 15.3   | 65  |
| 70  |       |       |       |       | 16.4  | 16.7  | 16.4   | 16.2   | 15.7   | 14.9   | 13.7   | 13.4   | 70  |
| 75  |       |       |       |       | 14.5  | 14.8  | 14.5   | 14.3   | 13.8   | 13.2   | 12     | 11.8   | 75  |
| 80  |       |       |       |       | 13    | 13.2  | 12.9   | 12.8   | 12.2   | 11.7   | 10.6   | 10.4   | 80  |
| 85  |       |       |       |       |       | 11.9  | 11.6   | 11.4   | 10.8   | 10.4   | 9.3    | 9.1    | 85  |
| 90  |       |       |       |       |       | 10.7  | 10.3   | 10.1   | 9.5    | 9.1    | 8.2    | 8      | 90  |
| 95  |       |       |       |       |       |       | 9.2    | 9      | 8.4    | 8      | 7.2    | 7      | 95  |
| 100 |       |       |       |       |       |       | 8.2    | 8      | 7.4    | 7.1    | 6.3    | 6.1    | 100 |
| 105 |       |       |       |       |       |       |        | 7.2    | 6.5    | 6.2    | 5.4    | 5.3    | 105 |
| 110 |       |       |       |       |       |       |        | 6.4    | 5.7    | 5.4    | 4.6    | 4.6    | 110 |
| 115 |       |       |       |       |       |       |        | 5.7    | 5.1    | 4.7    | 3.9    | 4      | 115 |
| 120 |       |       |       |       |       |       |        |        | 4.4    | 4      | 3.3    | 3.3    | 120 |
| 125 |       |       |       |       |       |       |        |        | 3.9    | 3.5    | 2.7    | 2.7    | 125 |
| 130 |       |       |       |       |       |       |        |        |        | 2.9    | 2.2    | 2.2    | 130 |
| 135 |       |       |       |       |       |       |        |        |        | 2.4    |        |        | 135 |
| 140 |       |       |       |       |       |       |        |        |        | 2.1    |        |        | 140 |

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# Lifting capacities Forces de levage

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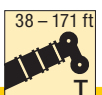

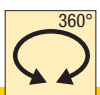








|     | 38 ft | 50 ft | 62 ft | 74 ft | 87 ft | 99 ft | 111 ft | 123 ft | 135 ft | 148 ft | 160 ft | 171 ft |     |
|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-----|
| 10  | 181.7 |       |       |       |       |       |        |        |        |        |        |        | 10  |
| 11  | 178.7 |       |       |       |       |       |        |        |        |        |        |        | 11  |
| 12  | 169   | 143.9 | 135.9 |       |       |       |        |        |        |        |        |        | 12  |
| 13  | 158.8 | 145   | 136.7 | 133.6 |       |       |        |        |        |        |        |        | 13  |
| 14  | 149.3 | 144.7 | 137.4 | 131.9 |       |       |        |        |        |        |        |        | 14  |
| 15  | 140.5 | 139.2 | 137.8 | 128.5 | 112.6 |       |        |        |        |        |        |        | 15  |
| 16  | 132.2 | 132   | 131.3 | 124.2 | 109.8 |       |        |        |        |        |        |        | 16  |
| 17  | 124.1 | 124.8 | 123.3 | 120.3 | 107.2 | 91.2  |        |        |        |        |        |        | 17  |
| 18  | 116.6 | 117.4 | 117.3 | 113.9 | 104   | 89.5  |        |        |        |        |        |        | 18  |
| 19  | 109.4 | 110.3 | 110.4 | 105.6 | 99.6  | 87.7  |        |        |        |        |        |        | 19  |
| 20  | 102.5 | 104.2 | 103.5 | 98.2  | 95.1  | 86.1  | 71.9   | 61.1   |        |        |        |        | 20  |
| 22  | 90.7  | 92.4  | 91.5  | 91.5  | 86.4  | 80.3  | 69.7   | 59.5   |        |        |        |        | 22  |
| 24  | 80.9  | 82.5  | 81.7  | 82.1  | 77.3  | 72.3  | 66.8   | 57.7   | 48.6   |        |        |        | 24  |
| 26  | 72.6  | 74.4  | 76.3  | 73.9  | 69.7  | 65.4  | 61.5   | 56.1   | 47.3   | 41.5   |        |        | 26  |
| 28  | 65.5  | 67.5  | 69.4  | 67    | 63.4  | 59.5  | 56.9   | 53.1   | 46     | 40.7   |        |        | 28  |
| 30  | 58    | 61.2  | 62.7  | 61.1  | 57.9  | 54.8  | 52.2   | 49.1   | 44.8   | 39.6   | 31.8   |        | 30  |
| 32  |       | 54.7  | 56.3  | 55.9  | 53.1  | 50.5  | 49.2   | 46.3   | 43.4   | 38.6   | 31.2   |        | 32  |
| 34  |       | 49.4  | 50.9  | 51.2  | 49.1  | 47.2  | 45.9   | 43.1   | 40.8   | 37.6   | 30.6   | 25.1   | 34  |
| 36  |       | 44.9  | 46.3  | 46.7  | 45.5  | 44.9  | 42.7   | 40.1   | 38.1   | 36.5   | 30.1   | 24.6   | 36  |
| 38  |       | 41.1  | 42.5  | 42.8  | 42.6  | 42.3  | 39.7   | 37.5   | 36.6   | 34.8   | 29.6   | 24.1   | 38  |
| 40  |       | 37.8  | 39.2  | 39.4  | 39.3  | 39.5  | 37.4   | 35.8   | 34.6   | 32.6   | 29.1   | 23.7   | 40  |
| 45  |       |       | 32.4  | 32.6  | 32.5  | 33.4  | 32.5   | 31.1   | 29.6   | 29.1   | 27.6   | 22.6   | 45  |
| 50  |       |       | 27.4  | 28.6  | 27.4  | 28.3  | 28     | 27.6   | 26.7   | 25.9   | 24.3   | 21.7   | 50  |
| 55  |       |       | 23.5  | 24.6  | 23.5  | 24.5  | 24.7   | 24.8   | 23.6   | 22.7   | 21.2   | 20.7   | 55  |
| 60  |       |       |       | 21.5  | 20.6  | 22    | 21.6   | 21.6   | 20.8   | 20     | 18.6   | 18.2   | 60  |
| 65  |       |       |       | 18.9  | 18.9  | 19.4  | 19.1   | 18.9   | 18.4   | 17.7   | 16.4   | 16     | 65  |
| 70  |       |       |       |       | 16.9  | 17.2  | 16.9   | 16.7   | 16.2   | 15.7   | 14.5   | 14.1   | 70  |
| 75  |       |       |       |       | 15.1  | 15.3  | 15     | 14.9   | 14.4   | 14     | 12.8   | 12.5   | 75  |
| 80  |       |       |       |       | 13.5  | 13.8  | 13.5   | 13.3   | 12.8   | 12.3   | 11.4   | 11.1   | 80  |
| 85  |       |       |       |       |       | 12.4  | 12.1   | 11.9   | 11.4   | 11     | 10.1   | 9.8    | 85  |
| 90  |       |       |       |       |       | 11.2  | 10.9   | 10.7   | 10.1   | 9.7    | 8.9    | 8.7    | 90  |
| 95  |       |       |       |       |       |       | 9.8    | 9.5    | 9      | 8.6    | 7.8    | 7.7    | 95  |
| 100 |       |       |       |       |       |       | 8.8    | 8.6    | 8      | 7.6    | 6.9    | 6.8    | 100 |
| 105 |       |       |       |       |       |       |        | 7.7    | 7.1    | 6.7    | 6      | 6      | 105 |
| 110 |       |       |       |       |       |       |        | 6.9    | 6.3    | 5.9    | 5.2    | 5.2    | 110 |
| 115 |       |       |       |       |       |       |        | 6.2    | 5.6    | 5.2    | 4.5    | 4.5    | 115 |
| 120 |       |       |       |       |       |       |        |        | 4.9    | 4.6    | 3.8    | 3.8    | 120 |
| 125 |       |       |       |       |       |       |        |        | 4.4    | 3.9    | 3.2    | 3.2    | 125 |
| 130 |       |       |       |       |       |       |        |        |        | 3.4    | 2.7    | 2.7    | 130 |
| 135 |       |       |       |       |       |       |        |        |        | 2.9    | 2.2    | 2.2    | 135 |
| 140 |       |       |       |       |       |       |        |        |        | 2.5    |        |        | 140 |

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# Lifting capacities Forces de levage

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

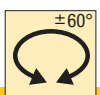








|     | 38 ft | 50 ft | 62 ft | 74 ft | 87 ft | 99 ft | 111 ft | 123 ft | 135 ft | 148 ft | 160 ft | 171 ft |     |
|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-----|
| 10  | 180.2 |       |       |       |       |       |        |        |        |        |        |        | 10  |
| 11  | 174.2 |       |       |       |       |       |        |        |        |        |        |        | 11  |
| 12  | 164.1 | 143.9 | 135.9 |       |       |       |        |        |        |        |        |        | 12  |
| 13  | 154.3 | 145   | 136.7 | 133.6 |       |       |        |        |        |        |        |        | 13  |
| 14  | 145.5 | 144   | 137.2 | 131.9 |       |       |        |        |        |        |        |        | 14  |
| 15  | 135.8 | 135.3 | 135   | 127.6 | 112.6 |       |        |        |        |        |        |        | 15  |
| 16  | 126.7 | 126.8 | 125.9 | 119.6 | 109.8 |       |        |        |        |        |        |        | 16  |
| 17  | 118.7 | 119.4 | 119.5 | 112   | 103.9 | 91.2  |        |        |        |        |        |        | 17  |
| 18  | 111.5 | 112.3 | 112.2 | 103.8 | 98.8  | 89.5  |        |        |        |        |        |        | 18  |
| 19  | 104.7 | 106.2 | 104.5 | 97.7  | 94.8  | 87.7  |        |        |        |        |        |        | 19  |
| 20  | 98.2  | 99.9  | 96.8  | 94.8  | 89.4  | 82.8  | 71.9   | 61.1   |        |        |        |        | 20  |
| 22  | 86.9  | 88.6  | 85.9  | 84    | 78.8  | 73.6  | 68.4   | 59.5   |        |        |        |        | 22  |
| 24  | 77    | 78.7  | 78.6  | 74.9  | 70.4  | 65.8  | 62.6   | 57.5   | 48.6   |        |        |        | 24  |
| 26  | 68.2  | 70.1  | 70.4  | 67.3  | 63.4  | 59.8  | 56.6   | 53.1   | 47.3   | 41.5   |        |        | 26  |
| 28  | 59.6  | 62.7  | 63.5  | 60.9  | 57.7  | 54.3  | 52.4   | 49.2   | 45.5   | 40.7   |        |        | 28  |
| 30  | 52.5  | 55.7  | 57.2  | 55.5  | 52.5  | 50.8  | 48.5   | 45.3   | 42.5   | 39.6   | 31.8   |        | 30  |
| 32  |       | 49.7  | 51.3  | 50.7  | 48.3  | 47.5  | 44.4   | 41.9   | 40.2   | 37.8   | 31.2   |        | 32  |
| 34  |       | 44.8  | 46.3  | 46.4  | 44.4  | 43.7  | 41.5   | 39.5   | 37.5   | 35.2   | 30.6   | 25.1   | 34  |
| 36  |       | 40.7  | 42.1  | 42.4  | 40.9  | 40.5  | 38.7   | 36.7   | 34.8   | 32.6   | 30.1   | 24.6   | 36  |
| 38  |       | 37    | 38.6  | 38.8  | 37.8  | 37.5  | 35.8   | 34     | 32.2   | 31.1   | 29.6   | 24.1   | 38  |
| 40  |       | 33.8  | 35.3  | 35.5  | 35    | 34.8  | 33.4   | 32.2   | 30.9   | 30.1   | 28.1   | 23.7   | 40  |
| 45  |       |       | 28.9  | 30.1  | 28.8  | 29.5  | 29.1   | 28.4   | 26.8   | 25.5   | 23.9   | 22.5   | 45  |
| 50  |       |       | 24    | 25.2  | 24.2  | 25.9  | 25.3   | 24.4   | 23     | 22     | 20.4   | 19.9   | 50  |
| 55  |       |       | 20.3  | 21.5  | 21.7  | 22.1  | 21.8   | 21.2   | 19.9   | 19     | 17.6   | 17.1   | 55  |
| 60  |       |       |       | 18.5  | 18.7  | 19    | 18.8   | 18.5   | 17.3   | 16.5   | 15.2   | 14.8   | 60  |
| 65  |       |       |       | 16.1  | 16.3  | 16.7  | 16.3   | 16.1   | 15.2   | 14.4   | 13.1   | 12.9   | 65  |
| 70  |       |       |       |       | 14.3  | 14.6  | 14.3   | 14.1   | 13.4   | 12.6   | 11.4   | 11.2   | 70  |
| 75  |       |       |       |       | 12.6  | 12.9  | 12.6   | 12.4   | 11.7   | 11.1   | 9.9    | 9.7    | 75  |
| 80  |       |       |       |       | 11.2  | 11.5  | 11.1   | 11     | 10.3   | 9.8    | 8.6    | 8.4    | 80  |
| 85  |       |       |       |       |       | 10.1  | 9.8    | 9.6    | 9      | 8.6    | 7.4    | 7.3    | 85  |
| 90  |       |       |       |       |       | 9     | 8.6    | 8.4    | 7.9    | 7.5    | 6.4    | 6.3    | 90  |
| 95  |       |       |       |       |       |       | 7.7    | 7.4    | 6.8    | 6.5    | 5.5    | 5.4    | 95  |
| 100 |       |       |       |       |       |       | 6.8    | 6.5    | 5.9    | 5.6    | 4.7    | 4.6    | 100 |
| 105 |       |       |       |       |       |       |        | 5.8    | 5.1    | 4.8    | 4      | 3.8    | 105 |
| 110 |       |       |       |       |       |       |        | 5.1    | 4.4    | 4.1    | 3.3    | 3.2    | 110 |
| 115 |       |       |       |       |       |       |        | 4.5    | 3.8    | 3.4    | 2.7    | 2.6    | 115 |
| 120 |       |       |       |       |       |       |        |        | 3.2    | 2.8    | 2.1    | 2      | 120 |
| 125 |       |       |       |       |       |       |        |        | 2.8    | 2.3    |        |        | 125 |
| 130 |       |       |       |       |       |       |        |        |        | 1.8    |        |        | 130 |

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# Lifting capacities Forces de levage

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|     | 38 ft | 50 ft | 62 ft | 74 ft | 87 ft | 99 ft | 111 ft | 123 ft | 135 ft | 148 ft | 160 ft | 171 ft |     |
|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-----|
| 10  | 181.4 |       |       |       |       |       |        |        |        |        |        |        | 10  |
| 11  | 177.9 |       |       |       |       |       |        |        |        |        |        |        | 11  |
| 12  | 167.3 | 143.9 | 135.9 |       |       |       |        |        |        |        |        |        | 12  |
| 13  | 156.6 | 145   | 136.7 | 133.6 |       |       |        |        |        |        |        |        | 13  |
| 14  | 147.1 | 144.4 | 137.4 | 131.9 |       |       |        |        |        |        |        |        | 14  |
| 15  | 137.9 | 137.1 | 137.1 | 127.6 | 112.6 |       |        |        |        |        |        |        | 15  |
| 16  | 128.9 | 129   | 128.1 | 119.6 | 109.8 |       |        |        |        |        |        |        | 16  |
| 17  | 120.7 | 121.3 | 121.5 | 112   | 103.9 | 91.2  |        |        |        |        |        |        | 17  |
| 18  | 112.6 | 113.5 | 113.1 | 103.8 | 98.8  | 89.5  |        |        |        |        |        |        | 18  |
| 19  | 105   | 106.2 | 104.9 | 97.7  | 94.8  | 87.7  |        |        |        |        |        |        | 19  |
| 20  | 98.2  | 99.9  | 96.8  | 94.8  | 89.4  | 82.8  | 71.9   | 61.1   |        |        |        |        | 20  |
| 22  | 86.8  | 88.5  | 85.9  | 84    | 78.8  | 73.6  | 68.4   | 59.5   |        |        |        |        | 22  |
| 24  | 77.3  | 79    | 78.6  | 74.9  | 70.4  | 65.8  | 62.6   | 57.5   | 48.6   |        |        |        | 24  |
| 26  | 68.2  | 70.6  | 70.4  | 67.3  | 63.4  | 59.8  | 56.6   | 53.1   | 47.3   | 41.5   |        |        | 26  |
| 28  | 59.6  | 62.7  | 63.5  | 60.9  | 57.7  | 54.3  | 52.4   | 49.4   | 45.7   | 40.7   |        |        | 28  |
| 30  | 52.5  | 55.7  | 57.2  | 55.5  | 52.6  | 50.8  | 48.7   | 45.7   | 43.1   | 39.6   | 31.8   |        | 30  |
| 32  |       | 49.7  | 51.3  | 50.8  | 48.5  | 47.7  | 44.9   | 42     | 40.2   | 38.4   | 31.2   |        | 32  |
| 34  |       | 44.8  | 46.3  | 46.7  | 44.8  | 44.2  | 41.9   | 40     | 38.2   | 36.1   | 30.6   | 25.1   | 34  |
| 36  |       | 40.7  | 42.1  | 42.4  | 41.5  | 41.1  | 39.4   | 37.4   | 35.6   | 33.5   | 30.1   | 24.6   | 36  |
| 38  |       | 37.2  | 38.6  | 38.8  | 38.5  | 38.3  | 36.6   | 34.9   | 33.2   | 31.2   | 29.6   | 24.1   | 38  |
| 40  |       | 34.1  | 35.5  | 35.7  | 35.6  | 35.7  | 34.3   | 32.7   | 31.4   | 30.6   | 28.8   | 23.7   | 40  |
| 45  |       |       | 29.4  | 30.6  | 29.4  | 30.2  | 30     | 29.1   | 27.8   | 26.6   | 25     | 22.6   | 45  |
| 50  |       |       | 24.6  | 25.9  | 24.7  | 26.3  | 26     | 25.4   | 24.1   | 23.1   | 21.5   | 21     | 50  |
| 55  |       |       | 21    | 22.2  | 22    | 22.8  | 22.5   | 22.2   | 21     | 20.1   | 18.7   | 18.2   | 55  |
| 60  |       |       |       | 19.3  | 19.5  | 19.8  | 19.5   | 19.3   | 18.4   | 17.6   | 16.3   | 15.9   | 60  |
| 65  |       |       |       | 16.9  | 17    | 17.4  | 17.1   | 16.9   | 16.2   | 15.5   | 14.2   | 13.9   | 65  |
| 70  |       |       |       |       | 15    | 15.4  | 15     | 14.9   | 14.3   | 13.7   | 12.5   | 12.2   | 70  |
| 75  |       |       |       |       | 13.4  | 13.6  | 13.4   | 13.2   | 12.6   | 12.1   | 10.9   | 10.7   | 75  |
| 80  |       |       |       |       | 12    | 12.2  | 11.9   | 11.7   | 11.1   | 10.7   | 9.6    | 9.4    | 80  |
| 85  |       |       |       |       |       | 10.9  | 10.5   | 10.4   | 9.8    | 9.4    | 8.4    | 8.2    | 85  |
| 90  |       |       |       |       |       | 9.8   | 9.4    | 9.2    | 8.6    | 8.3    | 7.3    | 7.2    | 90  |
| 95  |       |       |       |       |       |       | 8.4    | 8.2    | 7.6    | 7.2    | 6.4    | 6.2    | 95  |
| 100 |       |       |       |       |       |       | 7.5    | 7.2    | 6.6    | 6.3    | 5.5    | 5.4    | 100 |
| 105 |       |       |       |       |       |       |        | 6.4    | 5.8    | 5.5    | 4.7    | 4.7    | 105 |
| 110 |       |       |       |       |       |       |        | 5.7    | 5.1    | 4.7    | 4      | 4      | 110 |
| 115 |       |       |       |       |       |       |        | 5.1    | 4.5    | 4.1    | 3.3    | 3.4    | 115 |
| 120 |       |       |       |       |       |       |        |        | 3.9    | 3.5    | 2.7    | 2.8    | 120 |
| 125 |       |       |       |       |       |       |        |        | 3.3    | 2.9    | 2.2    | 2.2    | 125 |
| 130 |       |       |       |       |       |       |        |        |        | 2.4    |        |        | 130 |
| 135 |       |       |       |       |       |       |        |        |        | 2      |        |        | 135 |

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# Lifting capacities Forces de levage

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|     |     | 38 - 171 ft |       | 360°  |       | 0 lbs |       | 85%    |        |        |        |        |        |    |     |
|-----|-----|-------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|----|-----|
|     |     |             |       |       |       |       |       |        |        |        |        |        |        |    |     |
|     |     | 38 ft       | 50 ft | 62 ft | 74 ft | 87 ft | 99 ft | 111 ft | 123 ft | 135 ft | 148 ft | 160 ft | 171 ft |    |     |
| ft  | ft  |             |       |       |       |       |       |        |        |        |        |        |        | ft |     |
| 10  | 10  | 178.7       |       |       |       |       |       |        |        |        |        |        |        |    | 10  |
| 11  | 11  | 169.5       |       |       |       |       |       |        |        |        |        |        |        |    | 11  |
| 12  | 12  | 157.8       | 143.9 | 135.6 |       |       |       |        |        |        |        |        |        |    | 12  |
| 13  | 13  | 145.1       | 144.7 | 132.5 | 116.9 |       |       |        |        |        |        |        |        |    | 13  |
| 14  | 14  | 134.2       | 132.9 | 118.8 | 108.6 |       |       |        |        |        |        |        |        |    | 14  |
| 15  | 15  | 124.4       | 117.9 | 107.9 | 99.4  | 95.1  |       |        |        |        |        |        |        |    | 15  |
| 16  | 16  | 114.8       | 107.6 | 100.2 | 94.7  | 87.1  |       |        |        |        |        |        |        |    | 16  |
| 17  | 17  | 105.2       | 98.4  | 93.7  | 87.1  | 80.3  | 73.7  |        |        |        |        |        |        |    | 17  |
| 18  | 18  | 95.7        | 89.9  | 86    | 80.3  | 74    | 68    |        |        |        |        |        |        |    | 18  |
| 19  | 19  | 87.1        | 82.7  | 79.7  | 74.2  | 68.7  | 62.7  |        |        |        |        |        |        |    | 19  |
| 20  | 20  | 79.8        | 76.9  | 73.4  | 68.5  | 63.7  | 59.9  | 55.7   | 51.1   |        |        |        |        |    | 20  |
| 22  | 22  | 67.3        | 65.4  | 62.7  | 58.9  | 55    | 53.2  | 49.7   | 46.3   |        |        |        |        |    | 22  |
| 24  | 24  | 56.3        | 56.1  | 54.4  | 51.8  | 48.3  | 46.9  | 44.1   | 41.3   | 38.5   |        |        |        |    | 24  |
| 26  | 26  | 46.9        | 48.9  | 47.8  | 47.1  | 42.7  | 41.8  | 40.6   | 38.2   | 35.8   | 34.1   |        |        |    | 26  |
| 28  | 28  | 39.9        | 43.1  | 42.6  | 42.2  | 38.3  | 38.8  | 36.9   | 35     | 32.7   | 30.8   |        |        |    | 28  |
| 30  | 30  | 34.3        | 37.7  | 38.1  | 37.9  | 35.9  | 35.4  | 33.4   | 31.8   | 29.7   | 27.9   | 25.8   |        |    | 30  |
| 32  | 32  |             | 33    | 34.3  | 34.3  | 33.1  | 32.3  | 30.5   | 29     | 27     | 25.5   | 23.5   |        |    | 32  |
| 34  | 34  |             | 29.2  | 30.9  | 31.2  | 30.2  | 29.5  | 27.9   | 26.6   | 24.7   | 23.4   | 21.5   | 20.8   |    | 34  |
| 36  | 36  |             | 26    | 27.7  | 28.6  | 27.7  | 27.1  | 25.7   | 24.4   | 22.7   | 21.5   | 19.7   | 19.1   |    | 36  |
| 38  | 38  |             | 23.4  | 25    | 26.2  | 25.5  | 25    | 23.6   | 22.5   | 20.9   | 19.8   | 18.1   | 17.5   |    | 38  |
| 40  | 40  |             | 21    | 22.7  | 24    | 23.5  | 23.1  | 21.9   | 20.9   | 19.3   | 18.2   | 16.6   | 16.1   |    | 40  |
| 45  | 45  |             |       | 18    | 19.3  | 19.4  | 19.2  | 18.1   | 17.3   | 16     | 15     | 13.5   | 13.1   |    | 45  |
| 50  | 50  |             |       | 14.6  | 15.8  | 16    | 16.2  | 15.2   | 14.5   | 13.3   | 12.4   | 11     | 10.7   |    | 50  |
| 55  | 55  |             |       | 11.9  | 13.1  | 13.4  | 13.7  | 12.8   | 12.2   | 11.1   | 10.3   | 9      | 8.7    |    | 55  |
| 60  | 60  |             |       |       | 11    | 11.2  | 11.6  | 10.9   | 10.3   | 9.2    | 8.6    | 7.3    | 7.1    |    | 60  |
| 65  | 65  |             |       |       | 9.2   | 9.4   | 9.8   | 9.3    | 8.7    | 7.7    | 7.1    | 5.9    | 5.7    |    | 65  |
| 70  | 70  |             |       |       |       | 7.8   | 8.2   | 7.9    | 7.4    | 6.4    | 5.8    | 4.6    | 4.5    |    | 70  |
| 75  | 75  |             |       |       |       | 6.6   | 6.9   | 6.6    | 6.2    | 5.3    | 4.7    | 3.5    | 3.4    |    | 75  |
| 80  | 80  |             |       |       |       | 5.6   | 5.8   | 5.5    | 5.2    | 4.3    | 3.7    | 2.4    | 2.3    |    | 80  |
| 85  | 85  |             |       |       |       |       | 4.9   | 4.5    | 4.3    | 3.4    | 2.8    |        |        |    | 85  |
| 90  | 90  |             |       |       |       |       | 4.1   | 3.7    | 3.5    | 2.6    | 1.8    |        |        |    | 90  |
| 95  | 95  |             |       |       |       |       |       | 3      | 2.8    | 1.8    |        |        |        |    | 95  |
| 100 | 100 |             |       |       |       |       |       | 2.4    | 2.1    |        |        |        |        |    | 100 |

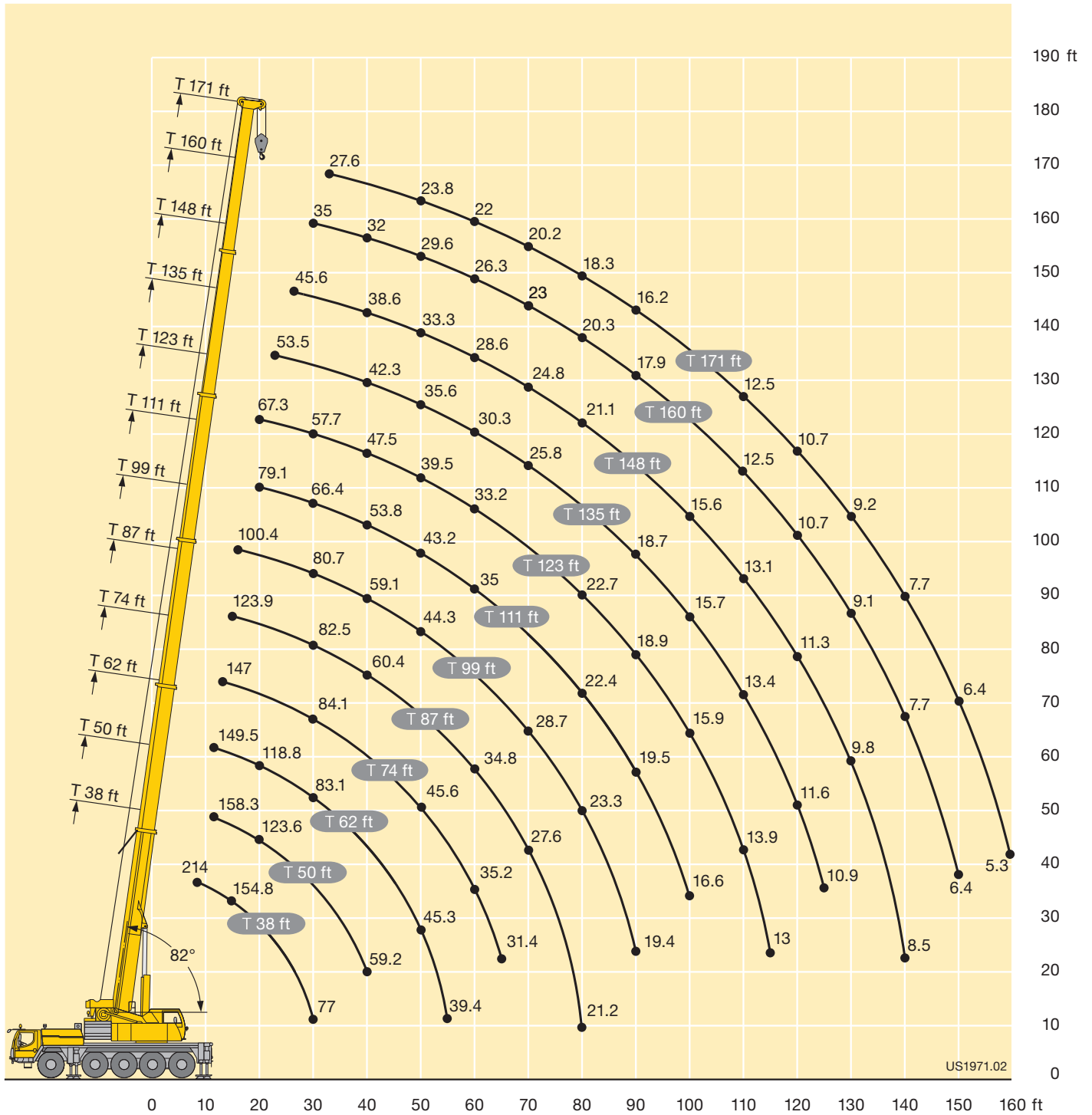
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|     |     | 38 - 171 ft |       | ±60°  |       | 0 lbs |       | 85%    |        |        |        |        |        |    |     |
|-----|-----|-------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|----|-----|
|     |     |             |       |       |       |       |       |        |        |        |        |        |        |    |     |
|     |     | 38 ft       | 50 ft | 62 ft | 74 ft | 87 ft | 99 ft | 111 ft | 123 ft | 135 ft | 148 ft | 160 ft | 171 ft |    |     |
| ft  | ft  |             |       |       |       |       |       |        |        |        |        |        |        | ft |     |
| 10  | 10  | 179.6       |       |       |       |       |       |        |        |        |        |        |        |    | 10  |
| 11  | 11  | 172.1       |       |       |       |       |       |        |        |        |        |        |        |    | 11  |
| 12  | 12  | 159.8       | 143.9 | 135.6 |       |       |       |        |        |        |        |        |        |    | 12  |
| 13  | 13  | 147.8       | 144.7 | 132.5 | 116.9 |       |       |        |        |        |        |        |        |    | 13  |
| 14  | 14  | 136.6       | 133   | 118.8 | 108.6 |       |       |        |        |        |        |        |        |    | 14  |
| 15  | 15  | 125.1       | 117.9 | 107.9 | 99.4  | 95.1  |       |        |        |        |        |        |        |    | 15  |
| 16  | 16  | 114.8       | 107.6 | 100.2 | 94.7  | 87.1  |       |        |        |        |        |        |        |    | 16  |
| 17  | 17  | 105.1       | 98.4  | 93.7  | 87.1  | 80.3  | 73.9  |        |        |        |        |        |        |    | 17  |
| 18  | 18  | 95.7        | 89.9  | 86    | 80.3  | 74.2  | 68.7  |        |        |        |        |        |        |    | 18  |
| 19  | 19  | 87.1        | 82.7  | 79.7  | 74.4  | 69.3  | 63.8  |        |        |        |        |        |        |    | 19  |
| 20  | 20  | 79.8        | 76.9  | 73.5  | 69.1  | 64.8  | 60.9  | 57.4   | 53.1   |        |        |        |        |    | 20  |
| 22  | 22  | 67.5        | 66.4  | 63.9  | 60.4  | 56.9  | 55.1  | 51.9   | 48.2   |        |        |        |        |    | 22  |
| 24  | 24  | 56.5        | 58    | 56.3  | 53.6  | 50.5  | 49.2  | 46.5   | 43.8   | 41.1   |        |        |        |    | 24  |
| 26  | 26  | 47.9        | 51.1  | 50.1  | 48.6  | 45.2  | 44.3  | 41.9   | 39.7   | 37.3   | 35.3   |        |        |    | 26  |
| 28  | 28  | 41.5        | 44.6  | 44.9  | 44.6  | 40.9  | 40.1  | 39.1   | 37.1   | 35     | 33.5   |        |        |    | 28  |
| 30  | 30  | 36.2        | 39.3  | 40.7  | 40.5  | 37.1  | 37.6  | 36     | 34.4   | 32.3   | 30.6   | 28.5   |        |    | 30  |
| 32  | 32  |             | 34.9  | 36.6  | 37    | 34.7  | 34.9  | 33.1   | 31.6   | 29.7   | 28.2   | 26.2   |        |    | 32  |
| 34  | 34  |             | 31.2  | 32.8  | 33.9  | 32.6  | 32.1  | 30.5   | 29.2   | 27.4   | 26     | 24.2   | 23.5   |    | 34  |
| 36  | 36  |             | 28.1  | 29.7  | 31    | 30.3  | 29.7  | 28.3   | 27     | 25.3   | 24.1   | 22.3   | 21.6   |    | 36  |
| 38  | 38  |             | 25.4  | 27    | 28.3  | 28.1  | 27.6  | 26.2   | 25     | 23.5   | 22.3   | 20.6   | 19.9   |    | 38  |
| 40  | 40  |             | 23.1  | 24.7  | 25.9  | 26    | 25.6  | 24.4   | 23.4   | 21.8   | 20.7   | 19     | 18.5   |    | 40  |
| 45  | 45  |             |       | 20    | 21.2  | 21.4  | 21.6  | 20.5   | 19.7   | 18.3   | 17.3   | 15.7   | 15.2   |    | 45  |
| 50  | 50  |             |       | 16.4  | 17.6  | 17.8  | 18.2  | 17.5   | 16.7   | 15.5   | 14.5   | 13     | 12.6   |    | 50  |
| 55  | 55  |             |       | 13.7  | 14.9  | 15.1  | 15.4  | 15     | 14.2   | 13     | 12.2   | 10.8   | 10.5   |    | 55  |
| 60  | 60  |             |       |       | 12.7  | 12.9  | 13.2  | 12.9   | 12.2   | 11     | 10.3   | 9      | 8.7    |    | 60  |
| 65  | 65  |             |       |       | 10.8  | 11    | 11.4  | 11     | 10.5   | 9.4    | 8.7    | 7.4    | 7.2    |    | 65  |
| 70  | 70  |             |       |       |       | 9.4   | 9.8   | 9.4    | 9      | 8      | 7.3    | 6.1    | 5.9    |    | 70  |
| 75  | 75  |             |       |       |       | 8     | 8.4   | 8.1    | 7.8    | 6.8    | 6.1    | 5      | 4.8    |    | 75  |
| 80  | 80  |             |       |       |       | 7     | 7.2   | 6.9    | 6.7    | 5.7    | 5.1    | 4      | 3.8    |    | 80  |
| 85  | 85  |             |       |       |       |       | 6.2   | 5.9    | 5.7    | 4.8    | 4.2    | 3      | 2.9    |    | 85  |
| 90  | 90  |             |       |       |       |       | 5.4   | 5      | 4.8    | 4      | 3.3    | 2.2    | 2      |    | 90  |
| 95  | 95  |             |       |       |       |       |       | 4.2    | 4      | 3.2    | 2.6    |        |        |    | 95  |
| 100 | 100 |             |       |       |       |       |       | 3.5    | 3.3    | 2.6    | 1.8    |        |        |    | 100 |
| 105 | 105 |             |       |       |       |       |       |        | 2.7    | 2      |        |        |        |    | 105 |
| 110 | 110 |             |       |       |       |       |       |        | 2.1    |        |        |        |        |    | 110 |

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# Lifting heights Hauteurs de levage

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# Lifting capacities Forces de levage

TK



| ft  | 38 ft |      |      | 123 ft |      |      | 135 ft |      |      | 148 ft |      |      | 160 ft |      |      | 171 ft |      |      | ft  |
|-----|-------|------|------|--------|------|------|--------|------|------|--------|------|------|--------|------|------|--------|------|------|-----|
|     | 35 ft |      |      | 35 ft  |      |      | 35 ft  |      |      | 35 ft  |      |      | 35 ft  |      |      | 35 ft  |      |      |     |
|     | 0°    | 20°  | 40°  | 0°     | 20°  | 40°  | 0°     | 20°  | 40°  | 0°     | 20°  | 40°  | 0°     | 20°  | 40°  | 0°     | 20°  | 40°  |     |
| 18  | 38.4  |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 18  |
| 19  | 37.6  |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 19  |
| 20  | 36.7  | 34.3 |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 20  |
| 22  | 35    | 33.7 |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 22  |
| 24  | 33.1  | 33   |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 24  |
| 26  | 31.2  | 32.1 |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 26  |
| 28  | 29.8  | 30.8 |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 28  |
| 30  | 28.5  | 29.5 | 26.3 | 32.4   |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 30  |
| 32  | 27.3  | 28.1 | 25   | 31.9   |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 32  |
| 34  | 26.1  | 27   | 24   | 31.5   |      |      | 29.5   |      |      | 23.7   |      |      |        |      |      |        |      |      | 34  |
| 36  | 25    | 25.9 | 23.1 | 31     |      |      | 29.2   |      |      | 23.4   |      |      |        |      |      |        |      |      | 36  |
| 38  | 23.8  | 24.9 | 22.3 | 30.6   |      |      | 28.9   |      |      | 23     |      |      |        |      |      |        |      |      | 38  |
| 40  | 22.9  | 23.9 | 21.4 | 30.2   | 26.6 |      | 28.6   |      |      | 22.6   |      |      | 18.3   |      |      | 14.7   |      |      | 40  |
| 45  | 21.1  | 21.3 | 19.2 | 29.1   | 25.8 |      | 27.9   |      |      | 21.8   |      |      | 17.7   |      |      | 14.2   |      |      | 45  |
| 50  | 19.3  | 19.5 | 17.7 | 27.6   | 24.4 |      | 26.8   | 23.9 |      | 21.1   | 19.9 |      | 17.1   |      |      | 13.6   | 12.8 |      | 50  |
| 55  | 17.5  | 18   | 16.6 | 26.1   | 23.2 | 20.2 | 25.5   | 22.8 | 20   | 20.4   | 19.1 |      | 16.4   | 15.5 |      | 13     | 12.6 |      | 55  |
| 60  |       | 16.7 |      | 24.5   | 22.1 | 19.4 | 24     | 21.8 | 19.3 | 19.5   | 18.3 | 17.6 | 15.6   | 14.9 | 14.4 | 12.5   | 12.1 | 11.8 | 60  |
| 65  |       | 15.2 |      | 23     | 21.1 | 18.7 | 22.6   | 20.9 | 18.6 | 18.7   | 17.6 | 16.8 | 14.9   | 14.4 | 13.9 | 12     | 11.5 | 11.2 | 65  |
| 70  |       |      |      | 21.6   | 20.2 | 18.1 | 21.2   | 20   | 18   | 17.9   | 16.8 | 16.3 | 14.3   | 13.8 | 13.5 | 11.4   | 11   | 10.9 | 70  |
| 75  |       |      |      | 20.2   | 19.3 | 17.5 | 19.9   | 19.3 | 17.5 | 17.1   | 16.1 | 15.7 | 13.8   | 13.3 | 13.1 | 11     | 10.8 | 10.5 | 75  |
| 80  |       |      |      | 18.9   | 18.5 | 16.9 | 18.6   | 18.5 | 17   | 16.6   | 15.4 | 15.1 | 13.3   | 12.7 | 12.6 | 10.6   | 10.4 | 10.1 | 80  |
| 85  |       |      |      | 17.5   | 17.6 | 16.1 | 17.4   | 17.6 | 16.5 | 15.8   | 14.8 | 14.6 | 12.7   | 12.2 | 12.2 | 10.3   | 10.1 | 9.8  | 85  |
| 90  |       |      |      | 16.1   | 16.4 | 15.5 | 16.3   | 16.5 | 16   | 14.9   | 14.3 | 14.1 | 12.3   | 11.8 | 11.8 | 9.9    | 9.7  | 9.4  | 90  |
| 95  |       |      |      | 14.7   | 15.3 | 14.6 | 15     | 15.4 | 15.4 | 14     | 13.8 | 13.7 | 11.9   | 11.5 | 11.4 | 9.5    | 9.3  | 9.1  | 95  |
| 100 |       |      |      | 13.3   | 14.2 | 13.5 | 13.7   | 14.3 | 14.7 | 13.2   | 13.4 | 13.3 | 11.5   | 11.3 | 11.2 | 9.2    | 9    | 8.9  | 100 |
| 105 |       |      |      | 12.1   | 13.3 | 12.7 | 12.6   | 13.2 | 13.7 | 12.4   | 12.7 | 12.9 | 11.2   | 10.9 | 10.9 | 9      | 8.7  | 8.7  | 105 |
| 110 |       |      |      | 11.3   | 12.4 | 11.9 | 11.9   | 12.4 | 12.5 | 11.5   | 12   | 12.2 | 10.8   | 10.5 | 10.6 | 8.7    | 8.4  | 8.4  | 110 |
| 115 |       |      |      | 10.9   | 11.5 | 11.3 | 11.3   | 11.6 | 11.6 | 10.5   | 11.2 | 11.5 | 10.5   | 10.3 | 10.3 | 8.3    | 8.1  | 8.1  | 115 |
| 120 |       |      |      | 10.3   | 10.8 | 10.8 | 10.5   | 10.9 | 11   | 10     | 10.3 | 10.7 | 10     | 9.9  | 10.1 | 8.1    | 8    | 7.9  | 120 |
| 125 |       |      |      | 9.6    | 10   | 10.2 | 9.7    | 10.1 | 10.3 | 9.5    | 9.7  | 9.8  | 9.2    | 9.2  | 9.7  | 7.7    | 7.7  | 7.8  | 125 |
| 130 |       |      |      | 8.9    | 9.2  | 9.3  | 9      | 9.4  | 9.6  | 9.1    | 9.3  | 9.4  | 8.5    | 8.4  | 9.3  | 7.4    | 7.3  | 7.6  | 130 |
| 135 |       |      |      | 8.6    | 8.5  | 8.2  | 8.5    | 8.7  | 8.8  | 8.6    | 8.9  | 9.1  | 7.8    | 7.8  | 8.6  | 7.1    | 7.2  | 7.4  | 135 |
| 140 |       |      |      | 8.2    | 8.3  | 5.4  | 8.1    | 8.2  | 8.4  | 7.9    | 8.3  | 8.5  | 7.1    | 7.3  | 7.9  | 6.8    | 6.7  | 7.1  | 140 |
| 145 |       |      |      |        |      |      | 7.8    | 7.9  | 7.7  | 7.3    | 7.6  | 7.8  | 6.5    | 6.7  | 7.2  | 6.3    | 5.6  | 6.7  | 145 |
| 150 |       |      |      |        |      |      | 7.3    | 7.5  | 5.9  | 6.6    | 7    | 7.1  | 5.9    | 6.2  | 6.6  | 5.7    | 4.9  | 6.4  | 150 |
| 155 |       |      |      |        |      |      | 6.7    | 6.9  |      | 6      | 6.3  | 6.4  | 5.3    | 5.6  | 5.9  | 5.2    | 4.9  | 5.8  | 155 |
| 160 |       |      |      |        |      |      |        |      |      | 5.5    | 5.7  | 5.7  | 4.8    | 5    | 5.3  | 4.7    | 4.7  | 5.3  | 160 |
| 165 |       |      |      |        |      |      |        |      |      | 5      |      |      | 4.3    | 4.3  | 4.6  | 4.2    | 4.4  | 4.7  | 165 |
| 170 |       |      |      |        |      |      |        |      |      | 4.6    |      |      | 3.8    | 4    | 4.1  | 3.7    | 3.8  | 4.1  | 170 |
| 175 |       |      |      |        |      |      |        |      |      |        |      |      | 3.3    | 3.5  | 3.5  | 3.2    | 3.3  | 3.6  | 175 |
| 180 |       |      |      |        |      |      |        |      |      |        |      |      | 2.9    |      |      | 2.8    | 3    | 3    | 180 |
| 185 |       |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 2.4    | 2.6  | 2.6  | 185 |
| 190 |       |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 2      | 2.1  | 2.1  | 190 |
| 195 |       |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        | 1.8  |      | 195 |

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# Lifting capacities Forces de levage

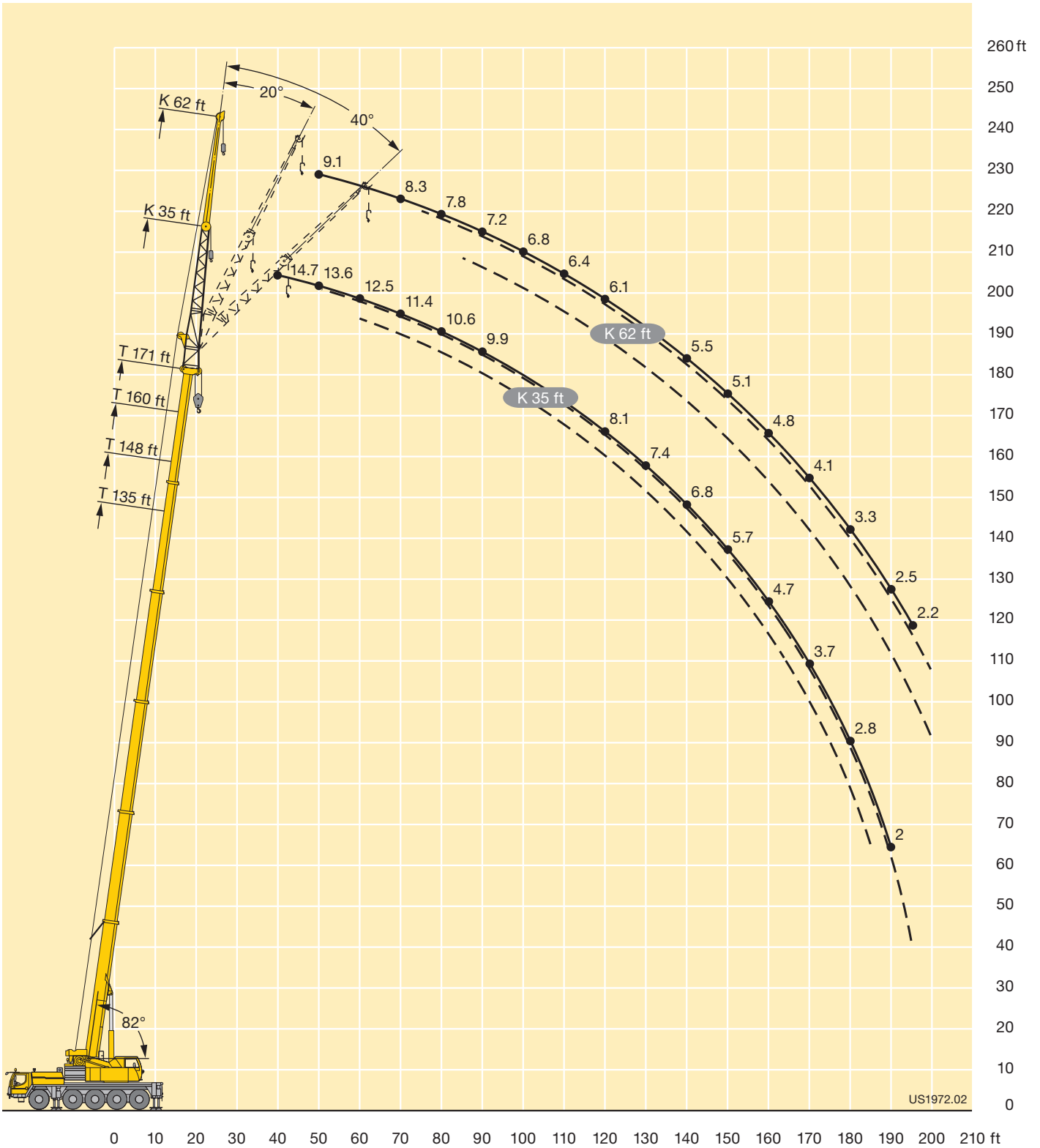
TK



| ft  | 38 ft |      |     | 123 ft |     |     | 135 ft |     |     | 148 ft |     |     | 160 ft |     |     | 171 ft |     |     | ft  |
|-----|-------|------|-----|--------|-----|-----|--------|-----|-----|--------|-----|-----|--------|-----|-----|--------|-----|-----|-----|
|     | 62 ft |      |     | 62 ft  |     |     | 62 ft  |     |     | 62 ft  |     |     | 62 ft  |     |     | 62 ft  |     |     |     |
|     | 0°    | 20°  | 40° | 0°     | 20° | 40° | 0°     | 20° | 40° | 0°     | 20° | 40° | 0°     | 20° | 40° | 0°     | 20° | 40° |     |
| 18  | 18.2  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 18  |
| 19  | 18.1  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 19  |
| 20  | 18    |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 20  |
| 22  | 17.8  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 22  |
| 24  | 17.5  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 24  |
| 26  | 17.3  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 26  |
| 28  | 16.8  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 28  |
| 30  | 16.3  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 30  |
| 32  | 15.7  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 32  |
| 34  | 15.2  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 34  |
| 36  | 14.7  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 36  |
| 38  | 14.2  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 38  |
| 40  | 13.7  | 10.3 |     | 12.6   |     |     | 12.2   |     |     | 11.2   |     |     |        |     |     |        |     |     | 40  |
| 45  | 12.6  | 9.7  |     | 12.5   |     |     | 12.2   |     |     | 11.2   |     |     |        |     |     |        |     |     | 45  |
| 50  | 11.5  | 9.1  |     | 12.4   |     |     | 12.2   |     |     | 11.2   |     |     | 10.2   |     |     | 9.1    |     |     | 50  |
| 55  | 10.7  | 8.5  | 7.3 | 12.2   | 9.6 |     | 12.1   |     |     | 11.1   |     |     | 10.2   |     |     | 9      |     |     | 55  |
| 60  | 9.9   | 8    | 7   | 11.9   | 9.4 |     | 11.8   | 9.4 |     | 10.9   |     |     | 10.1   |     |     | 8.8    |     |     | 60  |
| 65  | 9.2   | 7.8  | 6.8 | 11.6   | 9.1 |     | 11.5   | 9.2 |     | 10.7   |     |     | 9.9    | 8.8 |     | 8.5    |     |     | 65  |
| 70  | 8.8   | 7.6  | 6.6 | 11.3   | 8.7 |     | 11.3   | 9   |     | 10.5   | 8.8 |     | 9.8    | 8.6 |     | 8.3    |     |     | 70  |
| 75  | 8.3   | 7.4  | 6.6 | 11.1   | 8.4 | 6.9 | 11.1   | 8.7 | 7   | 10.3   | 8.6 |     | 9.7    | 8.4 |     | 8.1    | 7.9 |     | 75  |
| 80  | 7.9   | 7.2  | 6.6 | 10.7   | 8.2 | 6.8 | 10.9   | 8.4 | 7   | 10.2   | 8.4 | 7   | 9.5    | 8.2 |     | 7.8    | 7.7 |     | 80  |
| 85  | 7.6   | 7    | 6.6 | 10.3   | 8.1 | 6.8 | 10.6   | 8.1 | 6.8 | 10.2   | 8.3 | 6.8 | 9.3    | 8   | 6.8 | 7.5    | 7.5 | 6.8 | 85  |
| 90  | 7.2   |      |     | 9.9    | 7.9 | 6.6 | 10.3   | 7.9 | 6.8 | 10.1   | 8.1 | 6.8 | 9      | 7.9 | 6.8 | 7.2    | 7.2 | 6.8 | 90  |
| 95  |       |      |     | 9.6    | 7.7 | 6.6 | 10     | 7.7 | 6.7 | 9.9    | 7.9 | 6.7 | 8.7    | 7.7 | 6.8 | 6.9    | 6.9 | 6.7 | 95  |
| 100 |       |      |     | 9.3    | 7.5 | 6.6 | 9.6    | 7.5 | 6.6 | 9.6    | 7.8 | 6.6 | 8.5    | 7.7 | 6.7 | 6.8    | 6.7 | 6.5 | 100 |
| 105 |       |      |     | 8.9    | 7.3 | 6.6 | 9.2    | 7.5 | 6.6 | 9.2    | 7.6 | 6.6 | 8.3    | 7.5 | 6.6 | 6.6    | 6.5 | 6.3 | 105 |
| 110 |       |      |     | 8.6    | 7.3 | 6.6 | 9.1    | 7.4 | 6.6 | 9.1    | 7.4 | 6.6 | 8.1    | 7.4 | 6.6 | 6.4    | 6.4 | 6.1 | 110 |
| 115 |       |      |     | 8.3    | 7.2 | 6.6 | 8.7    | 7.2 | 6.6 | 8.9    | 7.3 | 6.6 | 7.9    | 7.3 | 6.6 | 6.2    | 6.2 | 5.9 | 115 |
| 120 |       |      |     | 8.1    | 7.1 | 6.6 | 8.4    | 7   | 6.6 | 8.7    | 7.2 | 6.6 | 7.7    | 7.2 | 6.6 | 6.1    | 6   | 5.8 | 120 |
| 125 |       |      |     | 7.9    | 7   | 6.6 | 8.2    | 7   | 6.6 | 8.5    | 7.1 | 6.6 | 7.5    | 7   | 6.6 | 5.9    | 5.8 | 5.6 | 125 |
| 130 |       |      |     | 7.7    | 6.9 | 6.6 | 8.1    | 6.9 | 6.6 | 8.3    | 7   | 6.6 | 7.3    | 6.8 | 6.6 | 5.7    | 5.6 | 5.4 | 130 |
| 135 |       |      |     | 7.4    | 6.9 | 6.4 | 8      | 6.8 | 6.6 | 8      | 6.9 | 6.6 | 7.1    | 6.7 | 6.6 | 5.7    | 5.4 | 5.3 | 135 |
| 140 |       |      |     | 7.1    | 6.8 | 6.3 | 7.6    | 6.8 | 6.6 | 7.4    | 6.8 | 6.6 | 7      | 6.6 | 6.6 | 5.5    | 5.3 | 5.3 | 140 |
| 145 |       |      |     | 6.7    | 6.6 | 6.3 | 7.6    | 6.8 | 6.6 | 6.8    | 6.8 | 6.6 | 6.7    | 6.6 | 6.5 | 5.3    | 5.3 | 5.3 | 145 |
| 150 |       |      |     | 6.2    | 6.5 | 6.1 | 7.1    | 6.8 | 6.6 | 6.7    | 6.6 | 6.6 | 6.2    | 6.5 | 6.4 | 5.1    | 5.1 | 5.2 | 150 |
| 155 |       |      |     | 6      | 6.3 | 5.9 | 6.6    | 6.8 | 6.6 | 6.5    | 6.4 | 6.5 | 5.8    | 6.2 | 6.3 | 5      | 4.9 | 5.1 | 155 |
| 160 |       |      |     | 5.7    | 6   | 5.7 | 6      | 6.5 | 6.6 | 6.1    | 6.3 | 6.3 | 5.3    | 5.9 | 6.2 | 4.8    | 4.8 | 5   | 160 |
| 165 |       |      |     | 5.3    | 5.9 |     | 5.5    | 6.1 | 6.2 | 5.7    | 6.2 | 6.2 | 4.8    | 5.5 | 5.9 | 4.5    | 4.6 | 4.9 | 165 |
| 170 |       |      |     | 4.9    | 5.4 |     | 5.4    | 6   | 6.1 | 5.2    | 5.8 | 5.9 | 4.4    | 5   | 5.4 | 4.1    | 4.6 | 4.8 | 170 |
| 175 |       |      |     |        |     |     |        | 5.7 | 5.6 | 4.8    | 5.3 | 5.5 | 4      | 4.6 | 4.9 | 3.7    | 4.4 | 4.6 | 175 |
| 180 |       |      |     |        |     |     |        | 5.2 |     | 4.3    | 4.8 | 4.9 | 3.5    | 4.1 | 4.4 | 3.3    | 3.9 | 4.3 | 180 |
| 185 |       |      |     |        |     |     |        |     |     |        | 4.3 | 4.4 | 3.1    | 3.6 | 3.8 | 2.9    | 3.5 | 3.8 | 185 |
| 190 |       |      |     |        |     |     |        |     |     |        | 3.9 | 3.8 | 2.7    | 3.2 | 3.3 | 2.5    | 3.1 | 3.3 | 190 |
| 195 |       |      |     |        |     |     |        |     |     |        |     |     | 2.4    | 2.8 | 2.8 | 2.2    | 2.7 | 2.9 | 195 |
| 200 |       |      |     |        |     |     |        |     |     |        |     |     | 2.1    | 2.4 | 2.4 |        | 2.3 | 2.4 | 200 |

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# Lifting heights Hauteurs de levage





# Lifting capacities Forces de levage

TVK



| ft  | 38 ft + 23 ft |      |      | 135 ft + 23 ft |      |     | 148 ft + 23 ft |      |     | 160 ft + 23 ft |     |     | 171 ft + 23 ft |     |     | ft  |
|-----|---------------|------|------|----------------|------|-----|----------------|------|-----|----------------|-----|-----|----------------|-----|-----|-----|
|     | 35 ft         |      |      | 35 ft          |      |     | 35 ft          |      |     | 35 ft          |     |     | 35 ft          |     |     |     |
|     | 0°            | 20°  | 40°  | 0°             | 20°  | 40° | 0°             | 20°  | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° |     |
| 18  | 12.9          |      |      |                |      |     |                |      |     |                |     |     |                |     |     | 18  |
| 19  | 12.6          |      |      |                |      |     |                |      |     |                |     |     |                |     |     | 19  |
| 20  | 12.4          |      |      |                |      |     |                |      |     |                |     |     |                |     |     | 20  |
| 22  | 12            |      |      |                |      |     |                |      |     |                |     |     |                |     |     | 22  |
| 24  | 11.6          |      |      |                |      |     |                |      |     |                |     |     |                |     |     | 24  |
| 26  | 11.3          |      |      |                |      |     |                |      |     |                |     |     |                |     |     | 26  |
| 28  | 10.9          | 11.3 |      |                |      |     |                |      |     |                |     |     |                |     |     | 28  |
| 30  | 10.5          | 11   |      |                |      |     |                |      |     |                |     |     |                |     |     | 30  |
| 32  | 10.3          | 10.6 |      |                |      |     |                |      |     |                |     |     |                |     |     | 32  |
| 34  | 10            | 10.2 | 10.7 |                |      |     |                |      |     |                |     |     |                |     |     | 34  |
| 36  | 9.7           | 9.9  | 10.3 |                |      |     |                |      |     |                |     |     |                |     |     | 36  |
| 38  | 9.4           | 9.7  | 10   |                |      |     |                |      |     |                |     |     |                |     |     | 38  |
| 40  | 9.2           | 9.4  | 9.6  | 12.6           |      |     | 12             |      |     |                |     |     |                |     |     | 40  |
| 45  | 8.5           | 8.7  | 8.9  | 12.1           |      |     | 11.6           |      |     |                |     |     |                |     |     | 45  |
| 50  | 7.9           | 8.1  | 8.4  | 11.6           | 10.9 |     | 11.1           |      |     | 10.4           |     |     | 8.7            |     |     | 50  |
| 55  | 7.4           | 7.6  | 7.8  | 11.2           | 10.4 |     | 10.7           | 10.2 |     | 10.1           | 9.8 |     | 8.4            | 7.9 |     | 55  |
| 60  | 6.9           | 7.1  | 7.3  | 10.8           | 9.9  | 9.6 | 10.4           | 9.7  | 9.4 | 9.9            | 9.4 | 8.8 | 8              | 7.8 |     | 60  |
| 65  | 6.5           | 6.6  | 6.8  | 10.3           | 9.5  | 9.3 | 10             | 9.3  | 9.1 | 9.5            | 9.1 | 8.8 | 7.7            | 7.6 |     | 65  |
| 70  | 6.2           | 6.2  | 6.4  | 9.9            | 9.2  | 9   | 9.6            | 8.9  | 8.7 | 9.3            | 8.7 | 8.5 | 7.5            | 7.3 | 7.3 | 70  |
| 75  | 5.8           | 5.8  | 5.8  | 9.5            | 8.8  | 8.6 | 9.3            | 8.6  | 8.4 | 9.1            | 8.5 | 8.2 | 7.2            | 7.1 | 7.1 | 75  |
| 80  |               | 5.5  | 5.2  | 9.2            | 8.5  | 8.2 | 8.9            | 8.3  | 8.1 | 8.7            | 8.2 | 8   | 6.9            | 6.9 | 6.9 | 80  |
| 85  |               | 5.1  | 4    | 8.8            | 8.2  | 7.9 | 8.6            | 8.1  | 7.8 | 8.4            | 7.9 | 7.7 | 6.7            | 6.7 | 6.5 | 85  |
| 90  |               |      |      | 8.5            | 7.9  | 7.7 | 8.2            | 7.9  | 7.6 | 8.2            | 7.9 | 7.5 | 6.4            | 6.5 | 6.3 | 90  |
| 95  |               |      |      | 8.1            | 7.7  | 7.5 | 8              | 7.8  | 7.3 | 8              | 7.6 | 7.3 | 6.2            | 6.2 | 6.1 | 95  |
| 100 |               |      |      | 7.8            | 7.5  | 7.4 | 7.8            | 7.5  | 7.2 | 7.8            | 7.4 | 7.2 | 6              | 6   | 5.9 | 100 |
| 105 |               |      |      | 7.6            | 7.2  | 7.2 | 7.6            | 7.2  | 7.2 | 7.6            | 7.2 | 7.2 | 6              | 5.8 | 5.6 | 105 |
| 110 |               |      |      | 7.4            | 7    | 7   | 7.5            | 7    | 7   | 7.4            | 7   | 6.8 | 5.8            | 5.6 | 5.4 | 110 |
| 115 |               |      |      | 7.2            | 6.8  | 6.8 | 7.3            | 6.8  | 6.8 | 7.1            | 6.8 | 6.6 | 5.7            | 5.4 | 5.2 | 115 |
| 120 |               |      |      | 6.9            | 6.6  | 6.7 | 7              | 6.6  | 6.7 | 6.9            | 6.6 | 6.5 | 5.5            | 5.3 | 5   | 120 |
| 125 |               |      |      | 6.7            | 6.4  | 6.5 | 6.7            | 6.5  | 6.5 | 6.7            | 6.5 | 6.4 | 5.3            | 5.1 | 4.9 | 125 |
| 130 |               |      |      | 6.5            | 6.1  | 6.3 | 6.5            | 6.3  | 6.3 | 6.5            | 6.3 | 6.3 | 5.1            | 4.9 | 4.7 | 130 |
| 135 |               |      |      | 6.4            | 5.9  | 6   | 6.3            | 6    | 6.1 | 6.4            | 6   | 6.1 | 5              | 4.7 | 4.6 | 135 |
| 140 |               |      |      | 6.2            | 5.7  | 5.8 | 6.2            | 5.8  | 5.9 | 6.2            | 5.8 | 5.9 | 4.8            | 4.7 | 4.5 | 140 |
| 145 |               |      |      | 6              | 5.5  | 5.6 | 6              | 5.7  | 5.8 | 5.8            | 5.7 | 5.7 | 4.6            | 4.6 | 4.4 | 145 |
| 150 |               |      |      | 5.8            | 5.4  | 5.6 | 5.8            | 5.6  | 5.6 | 5.4            | 5.5 | 5.4 | 4.4            | 4.4 | 4.4 | 150 |
| 155 |               |      |      | 5.6            | 5.3  | 5.4 | 5.5            | 5.4  | 5.4 | 4.9            | 5.2 | 5.2 | 4.2            | 4.3 | 4.3 | 155 |
| 160 |               |      |      | 5.4            | 5.2  | 5.3 | 5.1            | 5.2  | 5.2 | 4.4            | 4.8 | 5   | 4              | 4.2 | 4.1 | 160 |
| 165 |               |      |      | 5.2            | 5.1  | 5.3 | 4.6            | 5    | 4.9 | 3.8            | 4.3 | 4.5 | 3.6            | 4.1 | 4   | 165 |
| 170 |               |      |      | 4.7            | 4.8  | 4.9 | 4.2            | 4.5  | 4.5 | 3.3            | 3.8 | 4   | 3.3            | 3.6 | 3.8 | 170 |
| 175 |               |      |      | 4.3            | 4.4  | 4.2 | 3.7            | 4    | 4.1 | 2.9            | 3.2 | 3.5 | 2.8            | 3.2 | 3.4 | 175 |
| 180 |               |      |      | 4              | 4    |     | 3.3            | 3.5  | 3.6 | 2.6            | 2.8 | 3   | 2.4            | 2.7 | 3   | 180 |
| 185 |               |      |      |                |      |     | 2.9            | 3.2  | 3.1 | 2.2            | 2.5 | 2.5 |                | 2.2 | 2.5 | 185 |
| 190 |               |      |      |                |      |     | 2.7            | 2.8  | 2.7 | 1.9            | 2.1 | 2.2 |                | 2   | 2.1 | 190 |
| 195 |               |      |      |                |      |     |                | 2.5  |     |                |     |     |                |     |     | 195 |

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# Lifting capacities Forces de levage

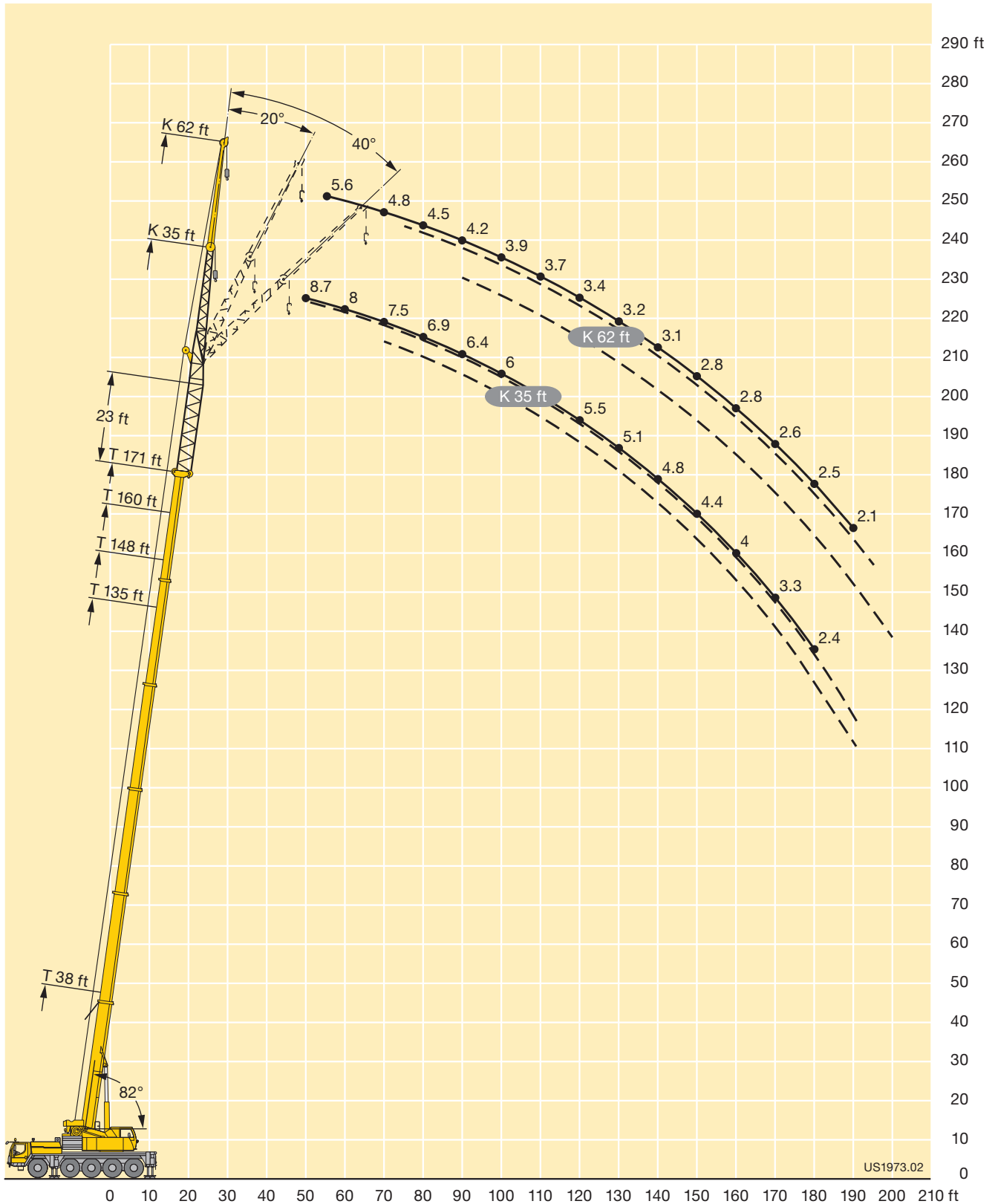
**TVK**



| ft  | 38 ft + 23 ft |     |     | 135 ft + 23 ft |     |     | 148 ft + 23 ft |     |     | 160 ft + 23 ft |     |     | 171 ft + 23 ft |     |     | ft  |
|-----|---------------|-----|-----|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|-----|
|     | 62 ft         |     |     | 62 ft          |     |     | 62 ft          |     |     | 62 ft          |     |     | 62 ft          |     |     |     |
|     | 0°            | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° |     |
| 26  | 7.8           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 26  |
| 28  | 7.9           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 28  |
| 30  | 7.8           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 30  |
| 32  | 7.7           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 32  |
| 34  | 7.6           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 34  |
| 36  | 7.5           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 36  |
| 38  | 7.5           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 38  |
| 40  | 7.3           | 7.6 |     |                |     |     |                |     |     |                |     |     |                |     |     | 40  |
| 45  | 6.8           | 7.3 |     |                |     |     |                |     |     |                |     |     |                |     |     | 45  |
| 50  | 6.4           | 6.9 |     | 7.3            |     |     | 6.9            |     |     | 6.3            |     |     |                |     |     | 50  |
| 55  | 6.1           | 6.5 |     | 7.2            |     |     | 6.9            |     |     | 6.3            |     |     | 5.6            |     |     | 55  |
| 60  | 5.7           | 6.2 | 6.4 | 7.2            |     |     | 6.9            |     |     | 6.3            |     |     | 5.3            |     |     | 60  |
| 65  | 5.4           | 5.8 | 6.1 | 7.2            | 6.9 |     | 6.7            | 6.7 |     | 6.3            |     |     | 5.1            |     |     | 65  |
| 70  | 5.2           | 5.5 | 5.7 | 7              | 6.6 |     | 6.7            | 6.6 |     | 6.3            | 6.3 |     | 4.8            |     |     | 70  |
| 75  | 4.9           | 5.1 | 5.4 | 7              | 6.4 |     | 6.6            | 6.3 |     | 6.3            | 6.1 |     | 4.6            | 5.2 |     | 75  |
| 80  | 4.6           | 4.8 | 5   | 6.8            | 6.2 | 5.8 | 6.4            | 6   | 5.6 | 6.2            | 6   |     | 4.5            | 5   |     | 80  |
| 85  | 4.4           | 4.6 | 4.9 | 6.5            | 6   | 5.8 | 6.1            | 5.8 | 5.6 | 6              | 5.8 | 5.5 | 4.3            | 4.9 |     | 85  |
| 90  | 4.2           | 4.5 | 4.7 | 6.2            | 5.7 | 5.6 | 5.8            | 5.6 | 5.6 | 5.9            | 5.6 | 5.4 | 4.2            | 4.7 | 4.4 | 90  |
| 95  | 4.1           | 4.3 | 4.5 | 5.9            | 5.4 | 5.4 | 5.7            | 5.5 | 5.5 | 5.7            | 5.5 | 5.2 | 4              | 4.5 | 4.4 | 95  |
| 100 | 3.9           | 4.1 | 4.4 | 5.6            | 5.3 | 5.3 | 5.5            | 5.3 | 5.3 | 5.5            | 5.3 | 5   | 3.9            | 4.4 | 4.4 | 100 |
| 105 | 3.7           | 3.9 | 4.1 | 5.4            | 5.1 | 5.1 | 5.3            | 5.1 | 5.1 | 5.3            | 5.1 | 4.9 | 3.7            | 4.2 | 4.4 | 105 |
| 110 | 3.5           | 3.8 |     | 5.2            | 4.9 | 4.9 | 5.2            | 4.9 | 4.9 | 5.1            | 4.9 | 4.7 | 3.7            | 4.1 | 4.2 | 110 |
| 115 |               |     |     | 5              | 4.8 | 4.8 | 5              | 4.7 | 4.7 | 5              | 4.7 | 4.6 | 3.6            | 4   | 4   | 115 |
| 120 |               |     |     | 4.8            | 4.6 | 4.6 | 4.9            | 4.6 | 4.6 | 4.9            | 4.6 | 4.5 | 3.4            | 3.9 | 3.9 | 120 |
| 125 |               |     |     | 4.7            | 4.4 | 4.4 | 4.8            | 4.4 | 4.4 | 4.8            | 4.4 | 4.4 | 3.3            | 3.7 | 3.8 | 125 |
| 130 |               |     |     | 4.6            | 4.4 | 4.4 | 4.7            | 4.4 | 4.4 | 4.7            | 4.2 | 4.2 | 3.2            | 3.5 | 3.7 | 130 |
| 135 |               |     |     | 4.5            | 4.3 | 4.4 | 4.5            | 4.3 | 4.4 | 4.5            | 4.1 | 4.2 | 3.2            | 3.5 | 3.6 | 135 |
| 140 |               |     |     | 4.3            | 4.1 | 4.3 | 4.3            | 4.1 | 4.3 | 4.3            | 4.1 | 4.2 | 3.1            | 3.4 | 3.4 | 140 |
| 145 |               |     |     | 4.2            | 4   | 4.2 | 4.1            | 4   | 4.2 | 4.1            | 4   | 4.2 | 3              | 3.2 | 3.3 | 145 |
| 150 |               |     |     | 4              | 4   | 4.2 | 4              | 4   | 4.1 | 4              | 3.9 | 4.1 | 2.8            | 3.1 | 3.2 | 150 |
| 155 |               |     |     | 3.9            | 3.9 | 4   | 3.9            | 4   | 4   | 4              | 3.8 | 4   | 2.8            | 3   | 3.1 | 155 |
| 160 |               |     |     | 3.8            | 3.9 | 4   | 3.8            | 4   | 4   | 3.9            | 3.7 | 4   | 2.8            | 2.9 | 3   | 160 |
| 165 |               |     |     | 3.7            | 3.9 | 4   | 3.8            | 3.9 | 4   | 3.8            | 3.7 | 3.9 | 2.7            | 2.8 | 3   | 165 |
| 170 |               |     |     | 3.5            | 3.8 | 3.9 | 3.7            | 3.8 | 3.9 | 3.6            | 3.5 | 3.8 | 2.6            | 2.8 | 3   | 170 |
| 175 |               |     |     | 3.4            | 3.7 | 3.8 | 3.6            | 3.7 | 3.8 | 3.3            | 3.5 | 3.7 | 2.6            | 2.6 | 3   | 175 |
| 180 |               |     |     | 3.4            | 3.6 | 3.6 | 3.5            | 3.7 | 3.7 | 3              | 3.5 | 3.6 | 2.5            | 2.6 | 2.9 | 180 |
| 185 |               |     |     | 3.3            | 3.5 | 3.5 | 3.3            | 3.6 | 3.7 | 2.7            | 3.2 | 3.5 | 2.3            | 2.6 | 2.8 | 185 |
| 190 |               |     |     | 3.2            | 3.5 | 3.5 | 3              | 3.5 | 3.6 | 2.3            | 2.8 | 3.2 | 2.1            | 2.5 | 2.7 | 190 |
| 195 |               |     |     | 3.1            | 3.3 | 3.3 | 2.7            | 3.2 | 3.4 | 2              | 2.4 | 2.7 |                | 2.3 | 2.6 | 195 |
| 200 |               |     |     | 2.9            | 3.1 | 3   | 2.3            | 2.8 | 2.9 |                | 2.1 | 2.4 |                |     | 2.3 | 200 |
| 205 |               |     |     | 2.7            | 2.9 |     | 2.1            | 2.4 | 2.5 |                |     |     |                |     |     | 205 |
| 210 |               |     |     | 2.4            | 2.6 |     | 1.8            | 2.1 | 2.1 |                |     |     |                |     |     | 210 |

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# Lifting heights Hauteurs de levage



# Lifting capacities Forces de levage

**TVK**



| ft  | 38 ft + 46 ft |     |     | 135 ft + 46 ft |     |     | 148 ft + 46 ft |     |     | 160 ft + 46 ft |     |     | 171 ft + 46 ft |     |     | ft  |
|-----|---------------|-----|-----|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|-----|
|     | 35 ft         |     |     | 35 ft          |     |     | 35 ft          |     |     | 35 ft          |     |     | 35 ft          |     |     |     |
|     | 0°            | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° |     |
| 20  | 9.7           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 20  |
| 22  | 9.3           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 22  |
| 24  | 8.9           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 24  |
| 26  | 8.6           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 26  |
| 28  | 8.4           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 28  |
| 30  | 8.2           | 8.7 |     |                |     |     |                |     |     |                |     |     |                |     |     | 30  |
| 32  | 8             | 8.5 |     |                |     |     |                |     |     |                |     |     |                |     |     | 32  |
| 34  | 7.7           | 8.2 |     |                |     |     |                |     |     |                |     |     |                |     |     | 34  |
| 36  | 7.5           | 8   |     |                |     |     |                |     |     |                |     |     |                |     |     | 36  |
| 38  | 7.3           | 7.8 |     |                |     |     |                |     |     |                |     |     |                |     |     | 38  |
| 40  | 7.1           | 7.6 | 7.8 |                |     |     |                |     |     |                |     |     |                |     |     | 40  |
| 45  | 6.8           | 7   | 7.3 |                |     |     |                |     |     |                |     |     |                |     |     | 45  |
| 50  | 6.3           | 6.5 | 6.7 | 8.4            |     |     | 8.1            |     |     | 7.2            |     |     |                |     |     | 50  |
| 55  | 5.8           | 6.1 | 6.2 | 8              | 7.6 |     | 7.8            | 7.2 |     | 7.2            |     |     | 5.6            |     |     | 55  |
| 60  | 5.5           | 5.7 | 5.7 | 7.8            | 7.1 | 6.9 | 7.6            | 7.1 |     | 7.1            | 6.8 |     | 5.6            | 5.6 |     | 60  |
| 65  | 5.1           | 5.4 | 5.4 | 7.5            | 7   | 6.9 | 7.2            | 6.8 |     | 7              | 6.5 |     | 5.5            | 5.6 |     | 65  |
| 70  | 4.8           | 5   | 5   | 7.1            | 6.8 | 6.6 | 7              | 6.6 | 6.6 | 6.8            | 6.3 | 6.3 | 5.4            | 5.4 | 5.3 | 70  |
| 75  | 4.5           | 4.7 | 4.8 | 6.8            | 6.5 | 6.4 | 6.8            | 6.4 | 6.3 | 6.5            | 6   | 6.1 | 5.2            | 5.2 | 5.2 | 75  |
| 80  | 4.4           | 4.4 | 4.5 | 6.6            | 6.2 | 6.2 | 6.4            | 6.1 | 6   | 6.3            | 5.8 | 5.8 | 5              | 5   | 5   | 80  |
| 85  | 4.2           | 4.2 | 4.2 | 6.3            | 5.8 | 5.8 | 6.3            | 5.9 | 5.8 | 6              | 5.6 | 5.6 | 4.7            | 4.7 | 4.9 | 85  |
| 90  | 4             | 4   | 4   | 6.1            | 5.6 | 5.6 | 6.1            | 5.7 | 5.6 | 5.9            | 5.4 | 5.4 | 4.5            | 4.5 | 4.7 | 90  |
| 95  | 3.7           | 3.8 | 3.7 | 5.9            | 5.6 | 5.5 | 5.8            | 5.6 | 5.3 | 5.7            | 5.2 | 5.2 | 4.3            | 4.3 | 4.5 | 95  |
| 100 | 3.4           | 3.6 | 3.4 | 5.6            | 5.5 | 5.3 | 5.5            | 5.4 | 5.2 | 5.5            | 5.1 | 5.1 | 4.1            | 4.1 | 4.3 | 100 |
| 105 | 3.2           | 3.2 | 3.2 | 5.4            | 5.3 | 5.1 | 5.3            | 5.1 | 5   | 5.3            | 5   | 5   | 3.9            | 3.9 | 4.2 | 105 |
| 110 |               |     |     | 5.2            | 5   | 4.9 | 5.1            | 4.9 | 4.9 | 5.1            | 4.9 | 4.9 | 3.8            | 3.8 | 4   | 110 |
| 115 |               |     |     | 5              | 4.8 | 4.7 | 5              | 4.7 | 4.7 | 5              | 4.7 | 4.7 | 3.6            | 3.6 | 3.8 | 115 |
| 120 |               |     |     | 4.8            | 4.6 | 4.6 | 4.8            | 4.7 | 4.6 | 4.8            | 4.6 | 4.6 | 3.5            | 3.5 | 3.6 | 120 |
| 125 |               |     |     | 4.6            | 4.4 | 4.4 | 4.6            | 4.6 | 4.4 | 4.6            | 4.4 | 4.4 | 3.4            | 3.4 | 3.5 | 125 |
| 130 |               |     |     | 4.5            | 4.4 | 4.2 | 4.5            | 4.4 | 4.4 | 4.5            | 4.4 | 4.2 | 3.3            | 3.3 | 3.3 | 130 |
| 135 |               |     |     | 4.4            | 4.3 | 4.2 | 4.4            | 4.3 | 4.3 | 4.4            | 4.3 | 4.2 | 3.2            | 3.1 | 3.1 | 135 |
| 140 |               |     |     | 4.3            | 4.1 | 4.1 | 4.4            | 4.1 | 4.1 | 4.3            | 4.1 | 4.1 | 3.1            | 3   | 3   | 140 |
| 145 |               |     |     | 4.3            | 3.9 | 3.9 | 4.3            | 3.9 | 3.9 | 4.2            | 4   | 4   | 3.1            | 3   | 3   | 145 |
| 150 |               |     |     | 4.2            | 3.8 | 3.8 | 4.2            | 3.8 | 3.7 | 4.1            | 3.9 | 3.9 | 3              | 2.8 | 2.9 | 150 |
| 155 |               |     |     | 4.1            | 3.7 | 3.7 | 4.1            | 3.7 | 3.6 | 4              | 3.8 | 3.8 | 2.9            | 2.6 | 2.8 | 155 |
| 160 |               |     |     | 3.9            | 3.6 | 3.7 | 3.9            | 3.6 | 3.5 | 3.7            | 3.6 | 3.6 | 2.8            | 2.6 | 2.8 | 160 |
| 165 |               |     |     | 3.9            | 3.5 | 3.6 | 3.8            | 3.5 | 3.5 | 3.4            | 3.4 | 3.5 | 2.7            | 2.5 | 2.7 | 165 |
| 170 |               |     |     | 3.7            | 3.4 | 3.5 | 3.7            | 3.4 | 3.5 | 3.1            | 3.3 | 3.3 | 2.5            | 2.4 | 2.6 | 170 |
| 175 |               |     |     | 3.6            | 3.3 | 3.3 | 3.4            | 3.3 | 3.5 | 2.7            | 3   | 3.1 | 2.3            | 2.3 | 2.5 | 175 |
| 180 |               |     |     | 3.4            | 3.1 | 3.3 | 3              | 3.1 | 3.3 | 2.3            | 2.6 | 2.8 |                | 2.2 | 2.4 | 180 |
| 185 |               |     |     | 3.1            | 3   | 3.2 | 2.7            | 2.9 | 3   |                | 2.2 | 2.4 |                |     | 2.2 | 185 |
| 190 |               |     |     | 2.8            | 2.8 | 3   | 2.3            | 2.6 | 2.6 |                | 1.9 | 2   |                |     | 1.9 | 190 |
| 195 |               |     |     | 2.5            | 2.6 | 2.7 | 2              | 2.2 | 2.2 |                |     |     |                |     |     | 195 |
| 200 |               |     |     | 2.2            | 2.3 | 2.2 |                |     |     |                |     |     |                |     |     | 200 |

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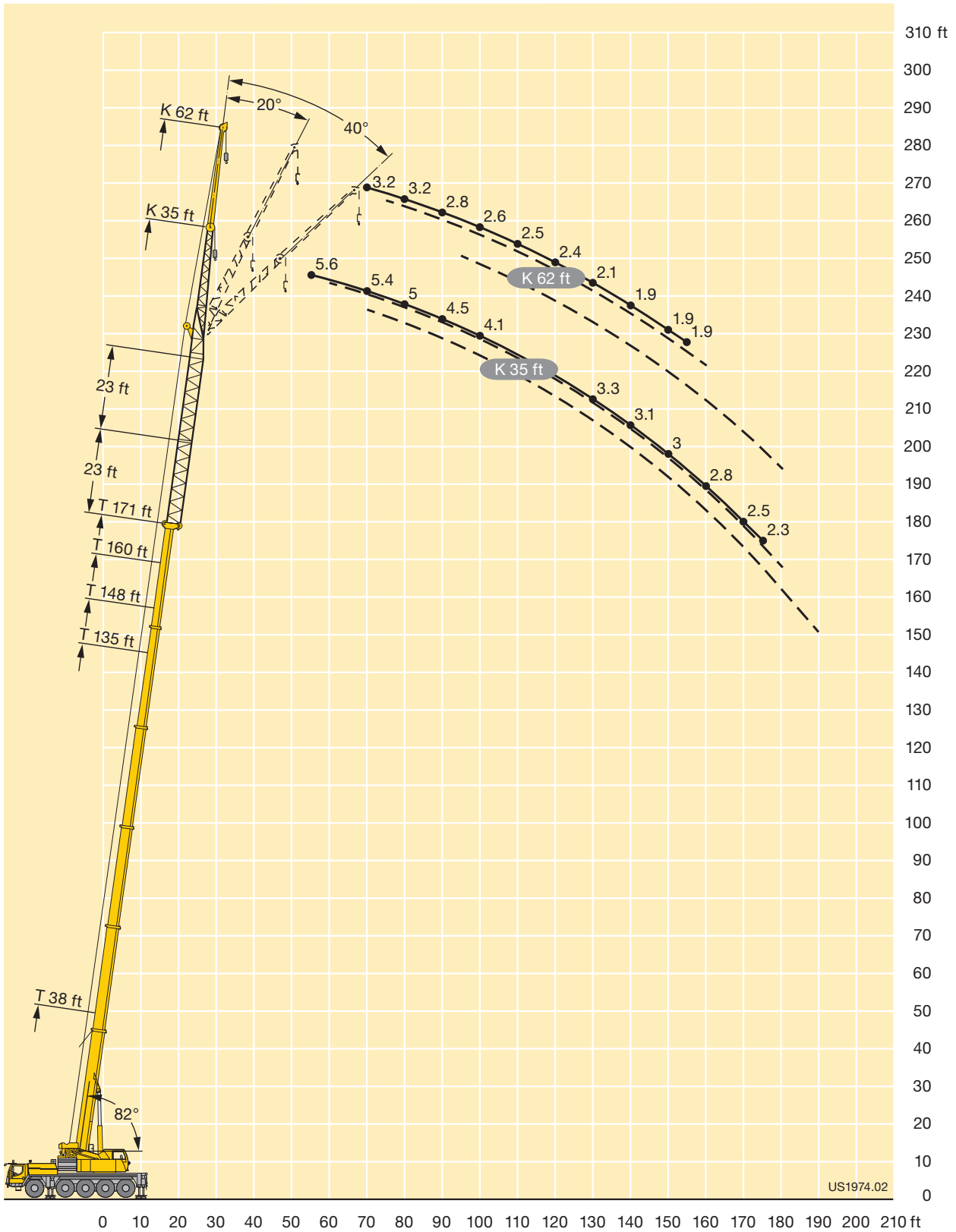
# Lifting capacities Forces de levage

**TVK**



| ft  | 38 ft + 46 ft |     |     | 135 ft + 46 ft |     |     | 148 ft + 46 ft |     |     | 160 ft + 46 ft |     |     | 171 ft + 46 ft |     |     | ft  |
|-----|---------------|-----|-----|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|-----|
|     | 62 ft         |     |     | 62 ft          |     |     | 62 ft          |     |     | 62 ft          |     |     | 62 ft          |     |     |     |
|     | 0°            | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° |     |
| 26  | 8.1           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 26  |
| 28  | 8.1           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 28  |
| 30  | 8.1           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 30  |
| 32  | 8.1           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 32  |
| 34  | 8             |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 34  |
| 36  | 7.9           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 36  |
| 38  | 7.7           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 38  |
| 40  | 7.5           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 40  |
| 45  | 7.1           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 45  |
| 50  | 6.7           | 6.7 |     | 5.9            |     |     |                |     |     |                |     |     |                |     |     | 50  |
| 55  | 6.3           | 6.5 |     | 5.7            |     |     | 5.5            |     |     | 4.6            |     |     |                |     |     | 55  |
| 60  | 6             | 6.2 | 6.6 | 5.5            |     |     | 5.3            |     |     | 4.6            |     |     |                |     |     | 60  |
| 65  | 5.6           | 5.8 | 6.3 | 5.3            | 5.1 |     | 5.1            |     |     | 4.6            |     |     |                |     |     | 65  |
| 70  | 5.3           | 5.5 | 5.9 | 5.2            | 5.1 |     | 4.9            |     |     | 4.6            |     |     | 3.2            |     |     | 70  |
| 75  | 5             | 5.2 | 5.6 | 5              | 4.9 |     | 4.8            | 4.8 |     | 4.5            | 4.4 |     | 3.2            | 3.5 |     | 75  |
| 80  | 4.8           | 5   | 5.2 | 4.8            | 4.6 |     | 4.6            | 4.6 |     | 4.3            | 4.3 |     | 3.2            | 3.5 |     | 80  |
| 85  | 4.5           | 4.7 | 4.9 | 4.6            | 4.4 | 4.4 | 4.4            | 4.4 |     | 4.2            | 4.2 | 4   | 3              | 3.5 |     | 85  |
| 90  | 4.2           | 4.5 | 4.7 | 4.5            | 4.2 | 4.2 | 4.2            | 4.2 | 4.2 | 4              | 4   | 4   | 2.8            | 3.5 |     | 90  |
| 95  | 4.2           | 4.3 | 4.4 | 4.3            | 4.1 | 4.1 | 4.1            | 4.1 | 4.1 | 3.9            | 3.8 | 3.8 | 2.7            | 3.4 | 3   | 95  |
| 100 | 4.1           | 4.1 | 4.1 | 4.1            | 3.9 | 3.9 | 3.9            | 3.9 | 3.9 | 3.8            | 3.7 | 3.6 | 2.6            | 3.2 | 3   | 100 |
| 105 | 3.9           | 3.9 | 3.9 | 3.9            | 3.7 | 3.7 | 3.7            | 3.7 | 3.7 | 3.7            | 3.6 | 3.5 | 2.6            | 3.1 | 2.8 | 105 |
| 110 | 3.6           | 3.8 | 3.8 | 3.8            | 3.5 | 3.6 | 3.7            | 3.5 | 3.5 | 3.5            | 3.5 | 3.5 | 2.5            | 3   | 2.8 | 110 |
| 115 | 3.5           | 3.6 | 3.5 | 3.6            | 3.4 | 3.5 | 3.6            | 3.4 | 3.4 | 3.4            | 3.5 | 3.4 | 2.4            | 2.9 | 2.8 | 115 |
| 120 | 3.4           | 3.4 | 3.1 | 3.4            | 3.3 | 3.4 | 3.4            | 3.3 | 3.2 | 3.2            | 3.4 | 3.2 | 2.4            | 2.7 | 2.8 | 120 |
| 125 | 3.2           | 3.2 | 2.8 | 3.2            | 3.2 | 3.2 | 3.2            | 3.2 | 3.2 | 3.2            | 3.3 | 3   | 2.3            | 2.5 | 2.7 | 125 |
| 130 | 2.9           | 2.9 | 2.4 | 3.1            | 3.1 | 3.1 | 3.1            | 3.1 | 3.1 | 3.1            | 3.2 | 3   | 2.1            | 2.4 | 2.6 | 130 |
| 135 |               | 2.7 |     | 3              | 2.9 | 2.9 | 3              | 2.9 | 3   | 2.9            | 3   | 2.9 | 2              | 2.3 | 2.4 | 135 |
| 140 |               |     |     | 2.9            | 2.8 | 2.8 | 2.9            | 2.8 | 2.9 | 2.8            | 2.8 | 2.8 | 1.9            | 2.2 | 2.3 | 140 |
| 145 |               |     |     | 2.7            | 2.8 | 2.8 | 2.8            | 2.8 | 2.8 | 2.7            | 2.8 | 2.8 | 1.9            | 2.2 | 2.3 | 145 |
| 150 |               |     |     | 2.6            | 2.8 | 2.8 | 2.6            | 2.8 | 2.8 | 2.6            | 2.8 | 2.8 | 1.9            | 2.1 | 2.3 | 150 |
| 155 |               |     |     | 2.6            | 2.6 | 2.8 | 2.6            | 2.8 | 2.8 | 2.6            | 2.8 | 2.8 | 1.9            | 1.9 | 2.3 | 155 |
| 160 |               |     |     | 2.5            | 2.6 | 2.7 | 2.6            | 2.7 | 2.7 | 2.6            | 2.7 | 2.7 |                | 1.9 | 2.2 | 160 |
| 165 |               |     |     | 2.4            | 2.5 | 2.6 | 2.6            | 2.6 | 2.6 | 2.6            | 2.6 | 2.6 |                |     | 2.1 | 165 |
| 170 |               |     |     | 2.3            | 2.4 | 2.5 | 2.6            | 2.5 | 2.5 | 2.5            | 2.5 | 2.5 |                |     | 2   | 170 |
| 175 |               |     |     | 2.3            | 2.3 | 2.4 | 2.6            | 2.4 | 2.4 | 2.4            | 2.4 | 2.4 |                |     | 1.9 | 175 |
| 180 |               |     |     | 2.3            | 2.3 | 2.3 | 2.5            | 2.3 | 2.3 | 2.3            | 2.3 | 2.3 |                |     | 1.9 | 180 |
| 185 |               |     |     | 2.3            | 2.2 | 2.3 | 2.4            | 2.2 | 2.3 | 2.1            | 2.3 | 2.3 |                |     |     | 185 |
| 190 |               |     |     | 2.3            | 2.1 | 2.2 | 2.3            | 2.1 | 2.2 | 1.8            | 2.1 | 2.3 |                |     |     | 190 |
| 195 |               |     |     | 2.3            | 2   | 2.1 | 2.2            | 2.1 | 2.1 |                | 2   | 2.2 |                |     |     | 195 |
| 200 |               |     |     | 2.3            | 2   | 2   | 2              | 2.1 | 2.1 |                |     | 2   |                |     |     | 200 |
| 205 |               |     |     | 2.2            | 1.9 |     |                | 2   | 2.1 |                |     |     |                |     |     | 205 |
| 210 |               |     |     | 2              | 1.9 |     |                | 1.9 | 1.9 |                |     |     |                |     |     | 210 |
| 215 |               |     |     |                | 1.9 |     |                |     |     |                |     |     |                |     |     | 215 |

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# Lifting capacities Forces de levage

**TNZK**



| ft  | 38 ft |      |      | 123 ft |      |      | 135 ft |      |      | 148 ft |      |      | 160 ft |      |      | 171 ft |      |      | ft  |
|-----|-------|------|------|--------|------|------|--------|------|------|--------|------|------|--------|------|------|--------|------|------|-----|
|     | 35 ft |      |      | 35 ft  |      |      | 35 ft  |      |      | 35 ft  |      |      | 35 ft  |      |      | 35 ft  |      |      |     |
|     | 0°    | 20°  | 40°  | 0°     | 20°  | 40°  | 0°     | 20°  | 40°  | 0°     | 20°  | 40°  | 0°     | 20°  | 40°  | 0°     | 20°  | 40°  |     |
| 10  | 38.7  |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 10  |
| 11  | 38.7  |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 11  |
| 12  | 38.7  |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 12  |
| 13  | 38.7  |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 13  |
| 14  | 38.7  |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 14  |
| 15  | 38.7  |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 15  |
| 16  | 38.7  |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 16  |
| 17  | 38.7  |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 17  |
| 18  | 38.6  |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 18  |
| 19  | 37.8  |      |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 19  |
| 20  | 36.9  | 34.4 |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 20  |
| 22  | 35.1  | 33.7 |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 22  |
| 24  | 33.3  | 32.9 |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 24  |
| 26  | 31.3  | 32.1 |      |        |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 26  |
| 28  | 29.9  | 31   |      | 32.8   |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 28  |
| 30  | 28.7  | 29.6 | 26.1 | 32.4   |      |      | 30.1   |      |      |        |      |      |        |      |      |        |      |      | 30  |
| 32  | 27.5  | 28.2 | 25.1 | 31.9   |      |      | 29.8   |      |      |        |      |      |        |      |      |        |      |      | 32  |
| 34  | 26.3  | 27   | 24   | 31.5   |      |      | 29.5   |      |      | 23.7   |      |      |        |      |      |        |      |      | 34  |
| 36  | 25.1  | 25.9 | 23.1 | 31     |      |      | 29.1   |      |      | 23.3   |      |      |        |      |      |        |      |      | 36  |
| 38  | 23.9  | 24.9 | 22.3 | 30.6   |      |      | 28.8   |      |      | 23     |      |      |        |      |      |        |      |      | 38  |
| 40  | 22.9  | 23.8 | 21.4 | 30.1   | 26.7 |      | 28.5   |      |      | 22.6   |      |      | 18.3   |      |      | 14.8   |      |      | 40  |
| 45  | 21.1  | 21.2 | 19.2 | 29     | 25.4 |      | 27.8   |      |      | 21.8   |      |      | 17.6   |      |      | 14.1   |      |      | 45  |
| 50  | 19.4  | 19.5 | 17.7 | 27.6   | 24.1 |      | 26.8   | 23.6 |      | 21.1   | 19.8 |      | 17     |      |      | 13.5   |      |      | 50  |
| 55  | 17.7  | 18.1 | 16.7 | 26.1   | 23   | 20   | 25.5   | 22.5 | 19.9 | 20.3   | 19   |      | 16.3   | 15.5 |      | 13     | 12.5 |      | 55  |
| 60  |       | 16.7 |      | 24.6   | 21.9 | 19.3 | 24.1   | 21.6 | 19.2 | 19.5   | 18.3 | 17.6 | 15.6   | 14.9 | 14.4 | 12.4   | 12   | 11.7 | 60  |
| 65  |       | 15.3 |      | 23     | 20.8 | 18.6 | 22.6   | 20.7 | 18.5 | 18.7   | 17.5 | 16.9 | 15     | 14.3 | 14   | 11.9   | 11.4 | 11.2 | 65  |
| 70  |       |      |      | 21.6   | 19.9 | 18   | 21.1   | 19.8 | 17.9 | 17.9   | 16.7 | 16.2 | 14.4   | 13.7 | 13.4 | 11.4   | 11   | 10.8 | 70  |
| 75  |       |      |      | 20.2   | 19.1 | 17.4 | 19.8   | 19   | 17.4 | 17.2   | 16.1 | 15.6 | 13.8   | 13.2 | 13   | 11     | 10.8 | 10.4 | 75  |
| 80  |       |      |      | 18.9   | 18.4 | 16.8 | 18.5   | 18.3 | 16.9 | 16.5   | 15.4 | 15   | 13.2   | 12.7 | 12.5 | 10.6   | 10.3 | 10   | 80  |
| 85  |       |      |      | 17.5   | 17.5 | 16.2 | 17.3   | 17.5 | 16.4 | 15.7   | 14.9 | 14.5 | 12.7   | 12.3 | 12.1 | 10.2   | 10   | 9.6  | 85  |
| 90  |       |      |      | 16.1   | 16.4 | 15.5 | 16.2   | 16.4 | 15.9 | 14.8   | 14.3 | 14   | 12.3   | 11.9 | 11.7 | 9.8    | 9.6  | 9.3  | 90  |
| 95  |       |      |      | 14.7   | 15.3 | 14.6 | 15     | 15.4 | 15.4 | 13.9   | 13.8 | 13.5 | 11.9   | 11.5 | 11.3 | 9.4    | 9.2  | 9.1  | 95  |
| 100 |       |      |      | 13.3   | 14.2 | 13.6 | 13.6   | 14.3 | 14.7 | 13.1   | 13.3 | 13.2 | 11.6   | 11.3 | 11.1 | 9.2    | 8.9  | 8.9  | 100 |
| 105 |       |      |      | 12.3   | 13.2 | 12.7 | 12.5   | 13.1 | 13.6 | 12.3   | 12.6 | 12.8 | 11.2   | 11   | 10.8 | 8.9    | 8.7  | 8.7  | 105 |
| 110 |       |      |      | 11.4   | 12.3 | 11.9 | 11.8   | 12.3 | 12.5 | 11.4   | 11.9 | 12.2 | 10.8   | 10.7 | 10.6 | 8.6    | 8.4  | 8.4  | 110 |
| 115 |       |      |      | 10.9   | 11.4 | 11.2 | 11.2   | 11.5 | 11.6 | 10.4   | 11.1 | 11.5 | 10.5   | 10.3 | 10.3 | 8.3    | 8.1  | 8.1  | 115 |
| 120 |       |      |      | 10.2   | 10.7 | 10.7 | 10.5   | 10.8 | 10.9 | 9.9    | 10.2 | 10.7 | 10     | 9.9  | 10   | 8.1    | 8    | 7.9  | 120 |
| 125 |       |      |      | 9.6    | 9.9  | 10.1 | 9.7    | 10.1 | 10.2 | 9.5    | 9.7  | 9.8  | 9.1    | 9.3  | 9.7  | 7.7    | 7.7  | 7.8  | 125 |
| 130 |       |      |      | 8.8    | 9.2  | 9.3  | 9      | 9.3  | 9.5  | 9      | 9.4  | 9.4  | 8.4    | 8.4  | 9.3  | 7.4    | 7.3  | 7.6  | 130 |
| 135 |       |      |      | 8.4    | 8.4  | 8.1  | 8.5    | 8.6  | 8.8  | 8.5    | 8.9  | 9    | 7.7    | 7.8  | 8.5  | 7.1    | 7.2  | 7.4  | 135 |
| 140 |       |      |      | 8.1    | 8.2  | 5.4  | 8.1    | 8.2  | 8.2  | 7.8    | 8.2  | 8.4  | 7.1    | 7.4  | 7.8  | 6.7    | 6.7  | 7.1  | 140 |
| 145 |       |      |      |        |      |      | 7.7    | 7.8  | 7.5  | 7.2    | 7.6  | 7.7  | 6.4    | 6.8  | 7.1  | 6.2    | 5.7  | 6.7  | 145 |
| 150 |       |      |      |        |      |      | 7.2    | 7.4  | 5.9  | 6.5    | 6.9  | 7    | 5.8    | 6.3  | 6.5  | 5.7    | 4.9  | 6.3  | 150 |
| 155 |       |      |      |        |      |      | 6.6    | 6.8  |      | 6      | 6.2  | 6.3  | 5.3    | 5.6  | 5.8  | 5.1    | 4.9  | 5.7  | 155 |
| 160 |       |      |      |        |      |      |        |      |      | 5.4    | 5.6  | 5.6  | 4.7    | 5    | 5.2  | 4.6    | 4.7  | 5.1  | 160 |
| 165 |       |      |      |        |      |      |        |      |      | 4.9    |      |      | 4.2    | 4.4  | 4.5  | 4.1    | 4.3  | 4.6  | 165 |
| 170 |       |      |      |        |      |      |        |      |      | 4.5    |      |      | 3.7    | 3.9  | 4    | 3.6    | 3.7  | 4    | 170 |
| 175 |       |      |      |        |      |      |        |      |      |        |      |      | 3.2    | 3.4  | 3.4  | 3.1    | 3.2  | 3.5  | 175 |
| 180 |       |      |      |        |      |      |        |      |      |        |      |      | 2.8    |      |      | 2.7    | 2.9  | 2.9  | 180 |
| 185 |       |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 2.3    | 2.5  | 2.5  | 185 |
| 190 |       |      |      |        |      |      |        |      |      |        |      |      |        |      |      | 1.9    | 1.9  | 2    | 190 |

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# Lifting capacities Forces de levage

**TNZK**



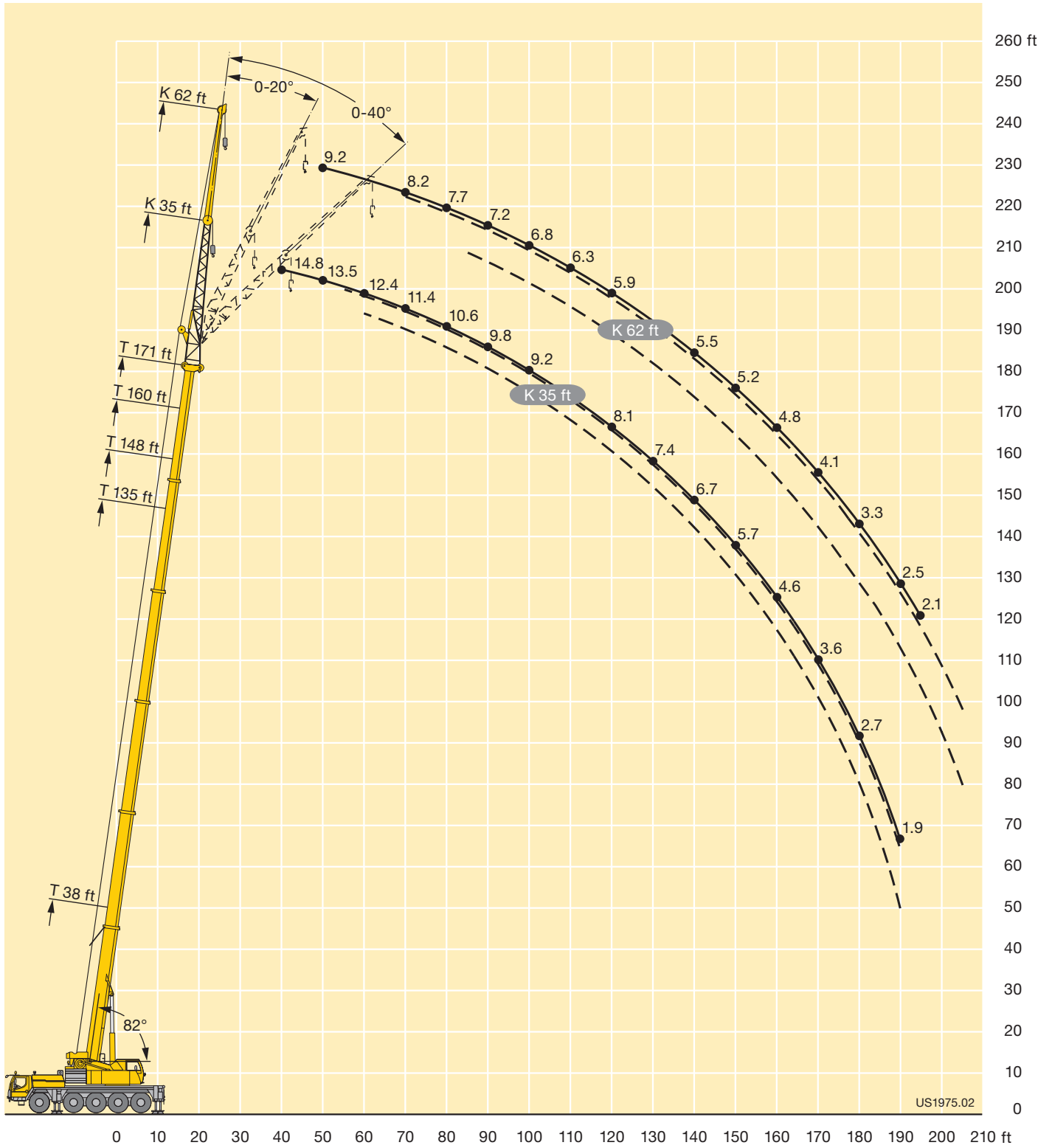
| ft  | 38 ft |      |     | 123 ft |     |     | 135 ft |     |     | 148 ft |     |     | 160 ft |     |     | 171 ft |     |     | ft  |
|-----|-------|------|-----|--------|-----|-----|--------|-----|-----|--------|-----|-----|--------|-----|-----|--------|-----|-----|-----|
|     | 62 ft |      |     | 62 ft  |     |     | 62 ft  |     |     | 62 ft  |     |     | 62 ft  |     |     | 62 ft  |     |     |     |
|     | 0°    | 20°  | 40° | 0°     | 20° | 40° | 0°     | 20° | 40° | 0°     | 20° | 40° | 0°     | 20° | 40° | 0°     | 20° | 40° |     |
| 16  | 18.4  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 16  |
| 17  | 18.3  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 17  |
| 18  | 18.2  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 18  |
| 19  | 18.1  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 19  |
| 20  | 18    |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 20  |
| 22  | 17.7  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 22  |
| 24  | 17.5  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 24  |
| 26  | 17.3  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 26  |
| 28  | 16.9  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 28  |
| 30  | 16.3  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 30  |
| 32  | 15.8  |      |     |        |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 32  |
| 34  | 15.2  |      |     | 12.6   |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 34  |
| 36  | 14.6  |      |     | 12.6   |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 36  |
| 38  | 14.1  |      |     | 12.6   |     |     |        |     |     |        |     |     |        |     |     |        |     |     | 38  |
| 40  | 13.6  | 10.3 |     | 12.6   |     |     | 12.1   |     |     | 11.2   |     |     |        |     |     |        |     |     | 40  |
| 45  | 12.5  | 9.7  |     | 12.6   |     |     | 12.1   |     |     | 11.2   |     |     |        |     |     |        |     |     | 45  |
| 50  | 11.5  | 9    | 7.7 | 12.4   | 9.9 |     | 12.1   |     |     | 11.2   |     |     | 10.3   |     |     | 9.2    |     |     | 50  |
| 55  | 10.7  | 8.5  | 7.4 | 12.3   | 9.7 |     | 12     | 9.8 |     | 11.1   |     |     | 10.2   |     |     | 9      |     |     | 55  |
| 60  | 9.9   | 8    | 7.1 | 11.9   | 9.3 |     | 11.7   | 9.5 |     | 11     |     |     | 10.2   |     |     | 8.7    |     |     | 60  |
| 65  | 9.2   | 7.8  | 6.8 | 11.6   | 9   |     | 11.5   | 9.2 |     | 10.8   |     |     | 10.1   | 8.9 |     | 8.4    |     |     | 65  |
| 70  | 8.7   | 7.6  | 6.7 | 11.4   | 8.7 | 7.1 | 11.2   | 8.9 | 7.2 | 10.6   | 8.8 |     | 9.9    | 8.6 |     | 8.2    | 8.2 |     | 70  |
| 75  | 8.2   | 7.4  | 6.5 | 11.1   | 8.5 | 7   | 11     | 8.6 | 7   | 10.4   | 8.6 | 7   | 9.7    | 8.4 |     | 8      | 8   |     | 75  |
| 80  | 7.8   | 7.2  | 6.5 | 10.7   | 8.2 | 6.9 | 10.8   | 8.3 | 6.9 | 10.2   | 8.4 | 6.9 | 9.4    | 8.3 |     | 7.7    | 7.7 |     | 80  |
| 85  | 7.5   | 7    | 6.5 | 10.3   | 8   | 6.8 | 10.5   | 8.1 | 6.8 | 10.1   | 8.2 | 6.9 | 9.2    | 8.1 | 6.9 | 7.4    | 7.4 | 6.9 | 85  |
| 90  | 7.1   |      |     | 9.9    | 7.8 | 6.7 | 10.2   | 7.9 | 6.7 | 9.9    | 8   | 6.8 | 8.9    | 7.9 | 6.8 | 7.2    | 7.2 | 6.8 | 90  |
| 95  |       |      |     | 9.6    | 7.6 | 6.6 | 9.9    | 7.8 | 6.7 | 9.8    | 7.8 | 6.7 | 8.7    | 7.8 | 6.7 | 7      | 7   | 6.6 | 95  |
| 100 |       |      |     | 9.3    | 7.5 | 6.6 | 9.6    | 7.6 | 6.6 | 9.6    | 7.6 | 6.6 | 8.5    | 7.6 | 6.7 | 6.8    | 6.8 | 6.4 | 100 |
| 105 |       |      |     | 8.9    | 7.4 | 6.5 | 9.3    | 7.4 | 6.6 | 9.3    | 7.5 | 6.6 | 8.2    | 7.5 | 6.7 | 6.5    | 6.5 | 6.3 | 105 |
| 110 |       |      |     | 8.7    | 7.3 | 6.5 | 9      | 7.3 | 6.5 | 9.1    | 7.3 | 6.6 | 8      | 7.4 | 6.6 | 6.3    | 6.3 | 6.1 | 110 |
| 115 |       |      |     | 8.4    | 7.1 | 6.5 | 8.8    | 7.1 | 6.5 | 8.8    | 7.3 | 6.6 | 7.8    | 7.2 | 6.6 | 6.1    | 6.1 | 6   | 115 |
| 120 |       |      |     | 8.1    | 7   | 6.5 | 8.5    | 7   | 6.5 | 8.6    | 7.1 | 6.6 | 7.6    | 7.1 | 6.6 | 5.9    | 5.9 | 5.8 | 120 |
| 125 |       |      |     | 7.9    | 6.9 | 6.5 | 8.2    | 6.9 | 6.5 | 8.4    | 7   | 6.6 | 7.4    | 7   | 6.6 | 5.8    | 5.8 | 5.6 | 125 |
| 130 |       |      |     | 7.6    | 6.8 | 6.5 | 8      | 6.8 | 6.5 | 8.2    | 6.9 | 6.6 | 7.2    | 6.8 | 6.6 | 5.6    | 5.6 | 5.4 | 130 |
| 135 |       |      |     | 7.3    | 6.8 | 6.4 | 7.8    | 6.7 | 6.5 | 8      | 6.9 | 6.6 | 7      | 6.7 | 6.6 | 5.5    | 5.5 | 5.3 | 135 |
| 140 |       |      |     | 7      | 6.7 | 6.3 | 7.6    | 6.7 | 6.5 | 7.4    | 6.8 | 6.6 | 6.9    | 6.5 | 6.5 | 5.5    | 5.3 | 5.3 | 140 |
| 145 |       |      |     | 6.7    | 6.6 | 6.3 | 7.5    | 6.7 | 6.5 | 6.7    | 6.7 | 6.5 | 6.6    | 6.5 | 6.4 | 5.3    | 5.2 | 5.3 | 145 |
| 150 |       |      |     | 6.2    | 6.5 | 6.1 | 7      | 6.7 | 6.5 | 6.5    | 6.6 | 6.5 | 6.2    | 6.5 | 6.3 | 5.2    | 5.1 | 5.2 | 150 |
| 155 |       |      |     | 5.9    | 6.3 | 5.9 | 6.6    | 6.7 | 6.5 | 6.4    | 6.4 | 6.5 | 5.7    | 6.2 | 6.3 | 5      | 5   | 5.1 | 155 |
| 160 |       |      |     | 5.7    | 6   | 5.7 | 6      | 6.4 | 6.5 | 6      | 6.3 | 6.3 | 5.3    | 5.9 | 6.2 | 4.8    | 4.8 | 5   | 160 |
| 165 |       |      |     | 5.3    | 5.8 |     | 5.6    | 6   | 6.2 | 5.7    | 6.2 | 6.2 | 4.8    | 5.4 | 5.9 | 4.5    | 4.7 | 4.9 | 165 |
| 170 |       |      |     | 4.9    | 5.4 |     | 5.3    | 5.9 | 6.1 | 5.2    | 5.7 | 5.9 | 4.3    | 5   | 5.3 | 4.1    | 4.5 | 4.8 | 170 |
| 175 |       |      |     |        |     |     |        | 5.6 | 5.5 | 4.7    | 5.2 | 5.4 | 3.9    | 4.5 | 4.8 | 3.7    | 4.3 | 4.5 | 175 |
| 180 |       |      |     |        |     |     |        | 5.1 | 4.1 | 4.3    | 4.7 | 4.8 | 3.5    | 4   | 4.3 | 3.3    | 3.9 | 4.2 | 180 |
| 185 |       |      |     |        |     |     |        | 4.7 |     |        | 4.2 | 4.2 | 3.1    | 3.5 | 3.7 | 2.9    | 3.5 | 3.7 | 185 |
| 190 |       |      |     |        |     |     |        |     |     |        | 3.8 | 3.7 | 2.7    | 3.1 | 3.2 | 2.5    | 3   | 3.3 | 190 |
| 195 |       |      |     |        |     |     |        |     |     |        |     |     | 2.3    | 2.7 | 2.7 | 2.1    | 2.6 | 2.8 | 195 |
| 200 |       |      |     |        |     |     |        |     |     |        |     |     | 2      | 2.3 | 2.2 |        | 2.2 | 2.3 | 200 |
| 205 |       |      |     |        |     |     |        |     |     |        |     |     |        | 1.9 | 1.7 |        | 1.8 | 1.9 | 205 |

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# Lifting heights Hauteurs de levage

**TNZK**



# Lifting capacities Forces de levage

TVNZK



85%

| ft  | 38 ft + 23 ft |      |      | 135 ft + 23 ft |      |      | 148 ft + 23 ft |      |     | 160 ft + 23 ft |      |     | 171 ft + 23 ft |     |     | ft  |
|-----|---------------|------|------|----------------|------|------|----------------|------|-----|----------------|------|-----|----------------|-----|-----|-----|
|     | 35 ft         |      |      | 35 ft          |      |      | 35 ft          |      |     | 35 ft          |      |     | 35 ft          |     |     |     |
|     | 0°            | 20°  | 40°  | 0°             | 20°  | 40°  | 0°             | 20°  | 40° | 0°             | 20°  | 40° | 0°             | 20° | 40° |     |
| 15  | 14.3          |      |      |                |      |      |                |      |     |                |      |     |                |     |     | 15  |
| 16  | 14            |      |      |                |      |      |                |      |     |                |      |     |                |     |     | 16  |
| 17  | 13.7          |      |      |                |      |      |                |      |     |                |      |     |                |     |     | 17  |
| 18  | 13.5          |      |      |                |      |      |                |      |     |                |      |     |                |     |     | 18  |
| 19  | 13.3          |      |      |                |      |      |                |      |     |                |      |     |                |     |     | 19  |
| 20  | 13            |      |      |                |      |      |                |      |     |                |      |     |                |     |     | 20  |
| 22  | 12.6          |      |      |                |      |      |                |      |     |                |      |     |                |     |     | 22  |
| 24  | 12.2          |      |      |                |      |      |                |      |     |                |      |     |                |     |     | 24  |
| 26  | 11.8          |      |      |                |      |      |                |      |     |                |      |     |                |     |     | 26  |
| 28  | 11.5          | 12   |      |                |      |      |                |      |     |                |      |     |                |     |     | 28  |
| 30  | 11.1          | 11.6 |      |                |      |      |                |      |     |                |      |     |                |     |     | 30  |
| 32  | 10.8          | 11.2 |      |                |      |      |                |      |     |                |      |     |                |     |     | 32  |
| 34  | 10.6          | 10.8 | 11.3 |                |      |      |                |      |     |                |      |     |                |     |     | 34  |
| 36  | 10.3          | 10.5 | 10.9 |                |      |      |                |      |     |                |      |     |                |     |     | 36  |
| 38  | 10            | 10.2 | 10.5 |                |      |      |                |      |     |                |      |     |                |     |     | 38  |
| 40  | 9.7           | 9.9  | 10.2 | 13.2           |      |      | 12.6           |      |     |                |      |     |                |     |     | 40  |
| 45  | 9             | 9.2  | 9.4  | 12.8           |      |      | 12.2           |      |     |                |      |     |                |     |     | 45  |
| 50  | 8.3           | 8.6  | 8.8  | 12.2           | 11.5 |      | 11.7           |      |     | 11             |      |     | 9.2            |     |     | 50  |
| 55  | 7.8           | 8    | 8.2  | 11.7           | 10.9 |      | 11.3           | 10.7 |     | 10.6           | 10.3 |     | 8.8            | 8.3 |     | 55  |
| 60  | 7.3           | 7.5  | 7.7  | 11.3           | 10.4 | 10.1 | 10.9           | 10.2 | 9.9 | 10.4           | 9.9  | 9.2 | 8.5            | 8.2 |     | 60  |
| 65  | 6.9           | 6.9  | 7.1  | 10.8           | 10   | 9.8  | 10.5           | 9.8  | 9.5 | 10             | 9.5  | 9.2 | 8.1            | 8   |     | 65  |
| 70  | 6.5           | 6.5  | 6.7  | 10.4           | 9.7  | 9.4  | 10.2           | 9.4  | 9.2 | 9.8            | 9.2  | 8.9 | 7.9            | 7.7 | 7.7 | 70  |
| 75  | 6.1           | 6.1  | 6.2  | 10             | 9.3  | 9    | 9.8            | 9.1  | 8.8 | 9.5            | 8.9  | 8.6 | 7.6            | 7.4 | 7.4 | 75  |
| 80  |               | 5.7  | 5.4  | 9.7            | 8.9  | 8.7  | 9.4            | 8.7  | 8.5 | 9.2            | 8.6  | 8.4 | 7.3            | 7.1 | 7.2 | 80  |
| 85  |               | 5.3  | 3.9  | 9.3            | 8.6  | 8.3  | 9              | 8.5  | 8.2 | 8.8            | 8.3  | 8.1 | 7              | 6.9 | 6.8 | 85  |
| 90  |               |      |      | 8.9            | 8.3  | 8.1  | 8.7            | 8.3  | 7.9 | 8.6            | 8.3  | 7.8 | 6.8            | 6.8 | 6.6 | 90  |
| 95  |               |      |      | 8.5            | 8.1  | 7.9  | 8.4            | 8.1  | 7.7 | 8.4            | 8.1  | 7.7 | 6.5            | 6.5 | 6.4 | 95  |
| 100 |               |      |      | 8.2            | 7.9  | 7.7  | 8.2            | 7.9  | 7.5 | 8.2            | 7.7  | 7.5 | 6.3            | 6.3 | 6.2 | 100 |
| 105 |               |      |      | 8              | 7.6  | 7.5  | 8              | 7.6  | 7.5 | 8              | 7.5  | 7.5 | 6.3            | 6.1 | 5.9 | 105 |
| 110 |               |      |      | 7.8            | 7.3  | 7.3  | 7.8            | 7.3  | 7.3 | 7.8            | 7.4  | 7.2 | 6.1            | 5.9 | 5.6 | 110 |
| 115 |               |      |      | 7.6            | 7.2  | 7.2  | 7.7            | 7.2  | 7.2 | 7.5            | 7.2  | 6.9 | 6              | 5.7 | 5.5 | 115 |
| 120 |               |      |      | 7.2            | 7    | 7    | 7.4            | 7    | 7   | 7.3            | 7    | 6.8 | 5.8            | 5.5 | 5.3 | 120 |
| 125 |               |      |      | 7              | 6.8  | 6.8  | 7.1            | 6.8  | 6.8 | 7              | 6.8  | 6.8 | 5.6            | 5.3 | 5.1 | 125 |
| 130 |               |      |      | 6.9            | 6.4  | 6.6  | 6.9            | 6.6  | 6.6 | 6.9            | 6.6  | 6.6 | 5.4            | 5.2 | 4.9 | 130 |
| 135 |               |      |      | 6.7            | 6.2  | 6.3  | 6.7            | 6.3  | 6.4 | 6.7            | 6.3  | 6.4 | 5.2            | 5   | 4.9 | 135 |
| 140 |               |      |      | 6.5            | 6    | 6    | 6.5            | 6    | 6.2 | 6.5            | 6.1  | 6.2 | 5              | 4.9 | 4.8 | 140 |
| 145 |               |      |      | 6.3            | 5.8  | 5.9  | 6.3            | 6    | 6.1 | 6              | 6    | 6   | 4.8            | 4.8 | 4.7 | 145 |
| 150 |               |      |      | 6.1            | 5.7  | 5.8  | 6.1            | 5.9  | 5.9 | 5.4            | 5.7  | 5.7 | 4.6            | 4.7 | 4.6 | 150 |
| 155 |               |      |      | 5.9            | 5.6  | 5.7  | 5.7            | 5.7  | 5.7 | 4.9            | 5.3  | 5.3 | 4.4            | 4.5 | 4.5 | 155 |
| 160 |               |      |      | 5.7            | 5.5  | 5.6  | 5.3            | 5.4  | 5.5 | 4.4            | 4.8  | 5   | 4.1            | 4.3 | 4.3 | 160 |
| 165 |               |      |      | 5.4            | 5.3  | 5.5  | 4.8            | 5.1  | 5.1 | 3.9            | 4.3  | 4.5 | 3.7            | 4   | 4.1 | 165 |
| 170 |               |      |      | 4.9            | 5.1  | 5.1  | 4.3            | 4.6  | 4.7 | 3.5            | 3.8  | 4   | 3.2            | 3.6 | 3.8 | 170 |
| 175 |               |      |      | 4.5            | 4.6  | 4.2  | 3.8            | 4.1  | 4.2 | 3              | 3.3  | 3.5 | 2.8            | 3.2 | 3.4 | 175 |
| 180 |               |      |      | 4              | 4.1  |      | 3.4            | 3.6  | 3.6 | 2.6            | 2.9  | 3   | 2.4            | 2.7 | 2.9 | 180 |
| 185 |               |      |      |                |      |      | 3              | 3.2  | 3.1 | 2.2            | 2.4  | 2.5 |                | 2.3 | 2.4 | 185 |
| 190 |               |      |      |                |      |      | 2.6            | 2.8  | 2.7 | 1.8            | 2    | 2   |                | 1.9 | 2   | 190 |
| 195 |               |      |      |                |      |      |                | 2.4  |     |                |      |     |                |     |     | 195 |

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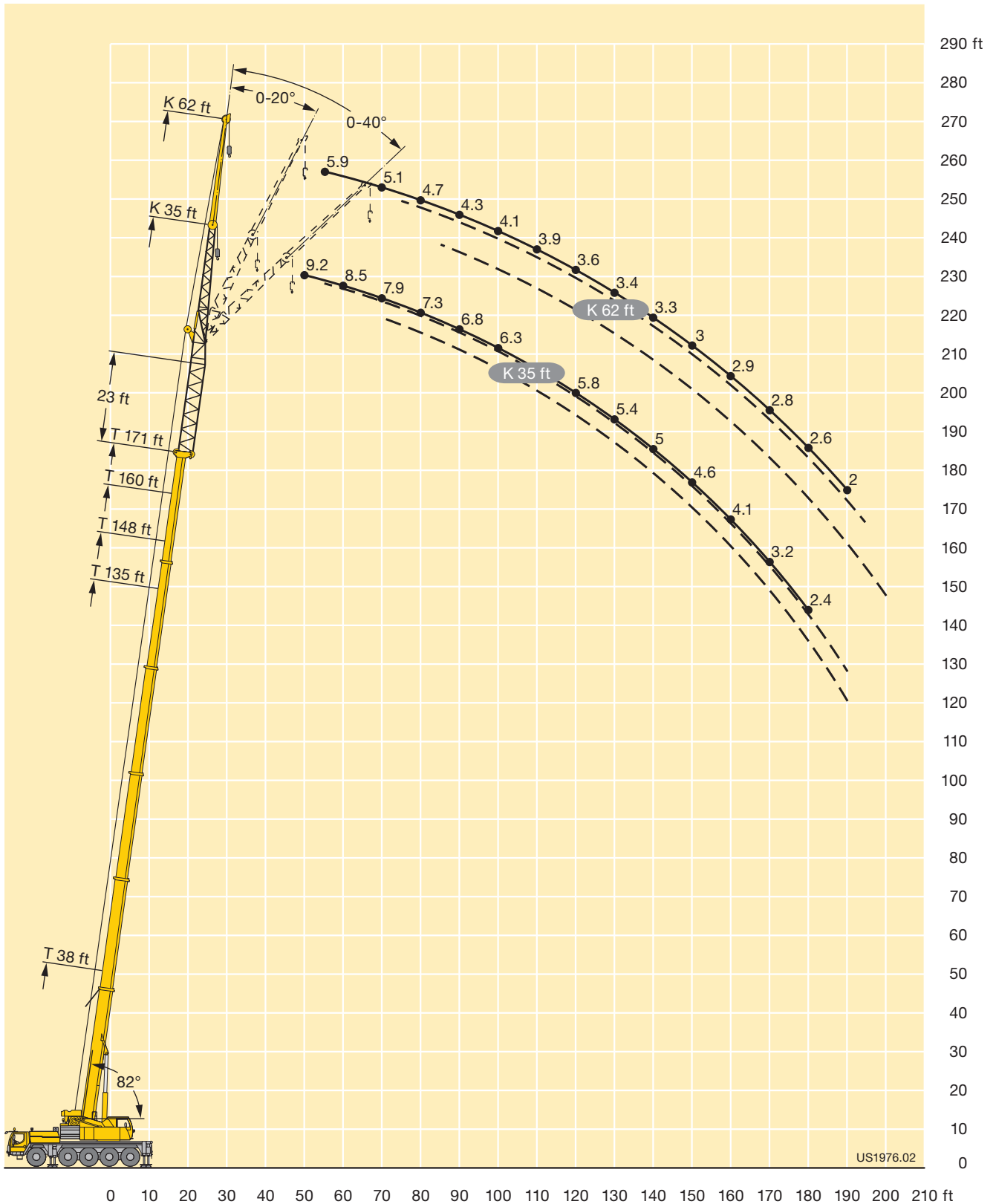
# Lifting capacities Forces de levage

TVNZK



| ft  | 38 ft + 23 ft |     |     | 135 ft + 23 ft |     |     | 148 ft + 23 ft |     |     | 160 ft + 23 ft |     |     | 171 ft + 23 ft |     |     | ft  |
|-----|---------------|-----|-----|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|-----|
|     | 62 ft         |     |     | 62 ft          |     |     | 62 ft          |     |     | 62 ft          |     |     | 62 ft          |     |     |     |
|     | 0°            | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° |     |
| 26  | 8.2           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 26  |
| 28  | 8.2           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 28  |
| 30  | 8.3           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 30  |
| 32  | 8.1           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 32  |
| 34  | 8             |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 34  |
| 36  | 7.9           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 36  |
| 38  | 7.9           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 38  |
| 40  | 7.8           | 8   |     |                |     |     |                |     |     |                |     |     |                |     |     | 40  |
| 45  | 7.2           | 7.7 |     |                |     |     |                |     |     |                |     |     |                |     |     | 45  |
| 50  | 6.8           | 7.3 |     | 7.7            |     |     | 7.3            |     |     | 6.6            |     |     |                |     |     | 50  |
| 55  | 6.4           | 6.9 |     | 7.5            |     |     | 7.3            |     |     | 6.6            |     |     | 5.9            |     |     | 55  |
| 60  | 6.1           | 6.5 | 6.7 | 7.5            |     |     | 7.3            |     |     | 6.6            |     |     | 5.6            |     |     | 60  |
| 65  | 5.7           | 6.2 | 6.4 | 7.5            | 7.3 |     | 7.1            |     |     | 6.6            |     |     | 5.4            |     |     | 65  |
| 70  | 5.5           | 5.8 | 6   | 7.4            | 7   |     | 7              | 6.9 |     | 6.6            | 6.6 |     | 5.1            |     |     | 70  |
| 75  | 5.2           | 5.4 | 5.6 | 7.3            | 6.7 |     | 7              | 6.6 |     | 6.6            | 6.5 |     | 4.8            | 5.5 |     | 75  |
| 80  | 4.9           | 5.1 | 5.3 | 7.1            | 6.6 | 6.1 | 6.7            | 6.3 | 5.9 | 6.5            | 6.3 |     | 4.7            | 5.3 |     | 80  |
| 85  | 4.7           | 4.9 | 5.1 | 6.7            | 6.3 | 6.1 | 6.4            | 6.1 | 5.8 | 6.4            | 6.1 | 5.8 | 4.5            | 5.1 | 4.6 | 85  |
| 90  | 4.5           | 4.7 | 4.9 | 6.4            | 6.1 | 5.9 | 6.1            | 5.9 | 5.8 | 6.2            | 5.9 | 5.7 | 4.3            | 4.9 | 4.6 | 90  |
| 95  | 4.3           | 4.5 | 4.7 | 6.2            | 5.7 | 5.7 | 6              | 5.7 | 5.7 | 6              | 5.7 | 5.5 | 4.2            | 4.8 | 4.6 | 95  |
| 100 | 4.1           | 4.3 | 4.6 | 6              | 5.6 | 5.5 | 5.8            | 5.6 | 5.6 | 5.8            | 5.6 | 5.3 | 4.1            | 4.6 | 4.6 | 100 |
| 105 | 3.9           | 4.1 | 4.3 | 5.7            | 5.4 | 5.4 | 5.6            | 5.4 | 5.4 | 5.6            | 5.4 | 5.1 | 3.9            | 4.4 | 4.6 | 105 |
| 110 | 3.7           | 3.9 |     | 5.4            | 5.2 | 5.2 | 5.4            | 5.2 | 5.2 | 5.4            | 5.2 | 4.9 | 3.9            | 4.3 | 4.4 | 110 |
| 115 |               |     |     | 5.2            | 5   | 5   | 5.2            | 5   | 5   | 5.3            | 5   | 4.9 | 3.8            | 4.3 | 4.3 | 115 |
| 120 |               |     |     | 5.1            | 4.8 | 4.8 | 5.1            | 4.8 | 4.8 | 5.1            | 4.8 | 4.8 | 3.6            | 4.1 | 4.1 | 120 |
| 125 |               |     |     | 4.9            | 4.7 | 4.6 | 5.1            | 4.7 | 4.6 | 5.1            | 4.6 | 4.6 | 3.5            | 3.9 | 3.9 | 125 |
| 130 |               |     |     | 4.9            | 4.6 | 4.6 | 4.9            | 4.6 | 4.6 | 4.9            | 4.5 | 4.4 | 3.4            | 3.7 | 3.8 | 130 |
| 135 |               |     |     | 4.7            | 4.5 | 4.6 | 4.8            | 4.5 | 4.6 | 4.8            | 4.4 | 4.4 | 3.4            | 3.7 | 3.8 | 135 |
| 140 |               |     |     | 4.6            | 4.3 | 4.5 | 4.6            | 4.3 | 4.5 | 4.6            | 4.3 | 4.4 | 3.3            | 3.6 | 3.6 | 140 |
| 145 |               |     |     | 4.4            | 4.2 | 4.4 | 4.4            | 4.1 | 4.4 | 4.4            | 4.2 | 4.4 | 3.2            | 3.4 | 3.5 | 145 |
| 150 |               |     |     | 4.2            | 4.1 | 4.4 | 4.2            | 4.1 | 4.3 | 4.2            | 4.1 | 4.4 | 3              | 3.2 | 3.4 | 150 |
| 155 |               |     |     | 4.1            | 4.1 | 4.2 | 4.1            | 4.1 | 4.2 | 4.1            | 4   | 4.2 | 2.9            | 3.1 | 3.3 | 155 |
| 160 |               |     |     | 4              | 4.1 | 4.1 | 4              | 4.1 | 4.1 | 4.1            | 3.9 | 4.1 | 2.9            | 3.1 | 3.2 | 160 |
| 165 |               |     |     | 3.9            | 4.1 | 4.1 | 3.9            | 4.1 | 4.1 | 3.9            | 3.9 | 4.1 | 2.8            | 2.9 | 3.2 | 165 |
| 170 |               |     |     | 3.7            | 4   | 4.1 | 3.9            | 4   | 4.1 | 3.8            | 3.7 | 3.9 | 2.8            | 2.9 | 3.2 | 170 |
| 175 |               |     |     | 3.6            | 3.9 | 4   | 3.8            | 3.9 | 4   | 3.4            | 3.6 | 3.9 | 2.7            | 2.8 | 3.1 | 175 |
| 180 |               |     |     | 3.5            | 3.7 | 3.8 | 3.7            | 3.9 | 3.9 | 3              | 3.5 | 3.8 | 2.6            | 2.7 | 3.1 | 180 |
| 185 |               |     |     | 3.5            | 3.7 | 3.6 | 3.5            | 3.8 | 3.9 | 2.7            | 3.3 | 3.5 | 2.3            | 2.6 | 2.9 | 185 |
| 190 |               |     |     | 3.4            | 3.6 | 3.6 | 3.1            | 3.5 | 3.7 | 2.3            | 2.9 | 3.2 | 2              | 2.6 | 2.7 | 190 |
| 195 |               |     |     | 3.2            | 3.5 | 3.5 | 2.8            | 3.2 | 3.4 | 2              | 2.5 | 2.8 |                | 2.3 | 2.6 | 195 |
| 200 |               |     |     | 3              | 3.3 | 3.1 | 2.4            | 2.8 | 2.9 |                | 2.1 | 2.3 |                |     | 2.2 | 200 |
| 205 |               |     |     | 2.7            | 2.9 |     | 2.1            | 2.4 | 2.4 |                |     |     |                |     |     | 205 |
| 210 |               |     |     | 2.4            | 2.5 |     | 1.8            | 2.1 | 2   |                |     |     |                |     |     | 210 |

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# Lifting capacities Forces de levage

TVNZK



| ft  | 38 ft + 46 ft |     |     | 135 ft + 46 ft |     |     | 148 ft + 46 ft |     |     | 160 ft + 46 ft |     |     | 171 ft + 46 ft |     |     | ft  |
|-----|---------------|-----|-----|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|-----|
|     | 35 ft         |     |     | 35 ft          |     |     | 35 ft          |     |     | 35 ft          |     |     | 35 ft          |     |     |     |
|     | 0°            | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° |     |
| 20  | 10.1          |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 20  |
| 22  | 9.8           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 22  |
| 24  | 9.4           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 24  |
| 26  | 9.1           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 26  |
| 28  | 8.9           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 28  |
| 30  | 8.7           | 9.2 |     |                |     |     |                |     |     |                |     |     |                |     |     | 30  |
| 32  | 8.5           | 8.9 |     |                |     |     |                |     |     |                |     |     |                |     |     | 32  |
| 34  | 8.2           | 8.7 |     |                |     |     |                |     |     |                |     |     |                |     |     | 34  |
| 36  | 8             | 8.4 |     |                |     |     |                |     |     |                |     |     |                |     |     | 36  |
| 38  | 7.7           | 8.2 |     |                |     |     |                |     |     |                |     |     |                |     |     | 38  |
| 40  | 7.5           | 8   | 8.2 |                |     |     |                |     |     |                |     |     |                |     |     | 40  |
| 45  | 7.2           | 7.4 | 7.7 |                |     |     |                |     |     |                |     |     |                |     |     | 45  |
| 50  | 6.6           | 6.9 | 7.1 | 8.8            |     |     | 8.6            |     |     | 7.5            |     |     |                |     |     | 50  |
| 55  | 6.2           | 6.4 | 6.6 | 8.4            | 8   |     | 8.2            | 7.5 |     | 7.5            |     |     | 5.8            |     |     | 55  |
| 60  | 5.8           | 6   | 6   | 8.2            | 7.5 | 7.3 | 8              | 7.5 |     | 7.5            | 7.2 |     | 5.8            | 5.8 |     | 60  |
| 65  | 5.4           | 5.6 | 5.6 | 7.9            | 7.3 | 7.3 | 7.6            | 7.1 |     | 7.3            | 6.9 |     | 5.8            | 5.8 |     | 65  |
| 70  | 5             | 5.3 | 5.3 | 7.5            | 7.1 | 7   | 7.4            | 6.9 | 6.9 | 7.1            | 6.6 | 6.6 | 5.7            | 5.7 | 5.6 | 70  |
| 75  | 4.8           | 4.9 | 5   | 7.2            | 6.9 | 6.7 | 7.1            | 6.7 | 6.6 | 6.9            | 6.4 | 6.4 | 5.5            | 5.5 | 5.5 | 75  |
| 80  | 4.6           | 4.6 | 4.8 | 6.9            | 6.5 | 6.5 | 6.8            | 6.5 | 6.3 | 6.6            | 6.1 | 6   | 5.3            | 5.3 | 5.3 | 80  |
| 85  | 4.4           | 4.4 | 4.4 | 6.7            | 6.1 | 6.1 | 6.6            | 6.2 | 6.1 | 6.3            | 5.9 | 5.8 | 5              | 4.9 | 5.1 | 85  |
| 90  | 4.2           | 4.2 | 4.2 | 6.4            | 5.9 | 5.9 | 6.4            | 5.9 | 5.9 | 6.2            | 5.7 | 5.7 | 4.7            | 4.7 | 4.9 | 90  |
| 95  | 3.9           | 4   | 3.9 | 6.2            | 5.8 | 5.7 | 6.1            | 5.8 | 5.6 | 6              | 5.5 | 5.5 | 4.5            | 4.5 | 4.8 | 95  |
| 100 | 3.6           | 3.8 | 3.6 | 6              | 5.8 | 5.5 | 5.8            | 5.7 | 5.4 | 5.8            | 5.4 | 5.4 | 4.3            | 4.3 | 4.6 | 100 |
| 105 | 3.4           | 3.4 | 3.4 | 5.7            | 5.6 | 5.3 | 5.6            | 5.4 | 5.3 | 5.6            | 5.3 | 5.3 | 4.1            | 4.1 | 4.4 | 105 |
| 110 |               |     |     | 5.4            | 5.2 | 5.2 | 5.4            | 5.2 | 5.2 | 5.4            | 5.2 | 5.2 | 4              | 3.9 | 4.2 | 110 |
| 115 |               |     |     | 5.2            | 5   | 5   | 5.2            | 5   | 5   | 5.2            | 5   | 5   | 3.8            | 3.8 | 4   | 115 |
| 120 |               |     |     | 5              | 4.8 | 4.8 | 5              | 4.9 | 4.8 | 5              | 4.8 | 4.8 | 3.6            | 3.7 | 3.8 | 120 |
| 125 |               |     |     | 4.9            | 4.7 | 4.6 | 4.9            | 4.8 | 4.7 | 4.9            | 4.7 | 4.6 | 3.6            | 3.6 | 3.6 | 125 |
| 130 |               |     |     | 4.7            | 4.6 | 4.5 | 4.7            | 4.7 | 4.6 | 4.7            | 4.6 | 4.4 | 3.5            | 3.5 | 3.5 | 130 |
| 135 |               |     |     | 4.6            | 4.5 | 4.4 | 4.6            | 4.5 | 4.5 | 4.6            | 4.5 | 4.4 | 3.4            | 3.3 | 3.3 | 135 |
| 140 |               |     |     | 4.5            | 4.3 | 4.3 | 4.6            | 4.3 | 4.3 | 4.5            | 4.3 | 4.3 | 3.3            | 3.2 | 3.2 | 140 |
| 145 |               |     |     | 4.5            | 4.1 | 4.1 | 4.6            | 4.1 | 4.1 | 4.4            | 4.2 | 4.2 | 3.2            | 3.1 | 3.1 | 145 |
| 150 |               |     |     | 4.4            | 4   | 3.9 | 4.4            | 4   | 3.9 | 4.4            | 4.1 | 4.1 | 3.1            | 3   | 3   | 150 |
| 155 |               |     |     | 4.2            | 3.9 | 3.9 | 4.3            | 3.9 | 3.7 | 4.2            | 4   | 4   | 3              | 2.8 | 2.9 | 155 |
| 160 |               |     |     | 4.1            | 3.8 | 3.9 | 4.1            | 3.8 | 3.6 | 3.8            | 3.8 | 3.8 | 2.9            | 2.7 | 2.9 | 160 |
| 165 |               |     |     | 4              | 3.7 | 3.8 | 4              | 3.6 | 3.6 | 3.4            | 3.6 | 3.7 | 2.8            | 2.6 | 2.8 | 165 |
| 170 |               |     |     | 3.8            | 3.6 | 3.7 | 3.9            | 3.6 | 3.6 | 3              | 3.3 | 3.4 | 2.5            | 2.5 | 2.7 | 170 |
| 175 |               |     |     | 3.7            | 3.5 | 3.5 | 3.5            | 3.5 | 3.6 | 2.6            | 2.9 | 3.1 | 2.2            | 2.3 | 2.6 | 175 |
| 180 |               |     |     | 3.5            | 3.3 | 3.4 | 3.1            | 3.2 | 3.4 | 2.2            | 2.5 | 2.7 |                | 2.2 | 2.3 | 180 |
| 185 |               |     |     | 3.2            | 3.1 | 3.3 | 2.7            | 3   | 3   |                | 2.1 | 2.3 |                |     | 2.1 | 185 |
| 190 |               |     |     | 2.9            | 2.9 | 3.1 | 2.3            | 2.5 | 2.6 |                | 1.8 | 1.9 |                |     | 1.7 | 190 |
| 195 |               |     |     | 2.5            | 2.7 | 2.7 | 1.9            | 2.1 | 2.2 |                |     |     |                |     |     | 195 |
| 200 |               |     |     | 2.2            | 2.3 | 2.2 |                |     |     |                |     |     |                |     |     | 200 |

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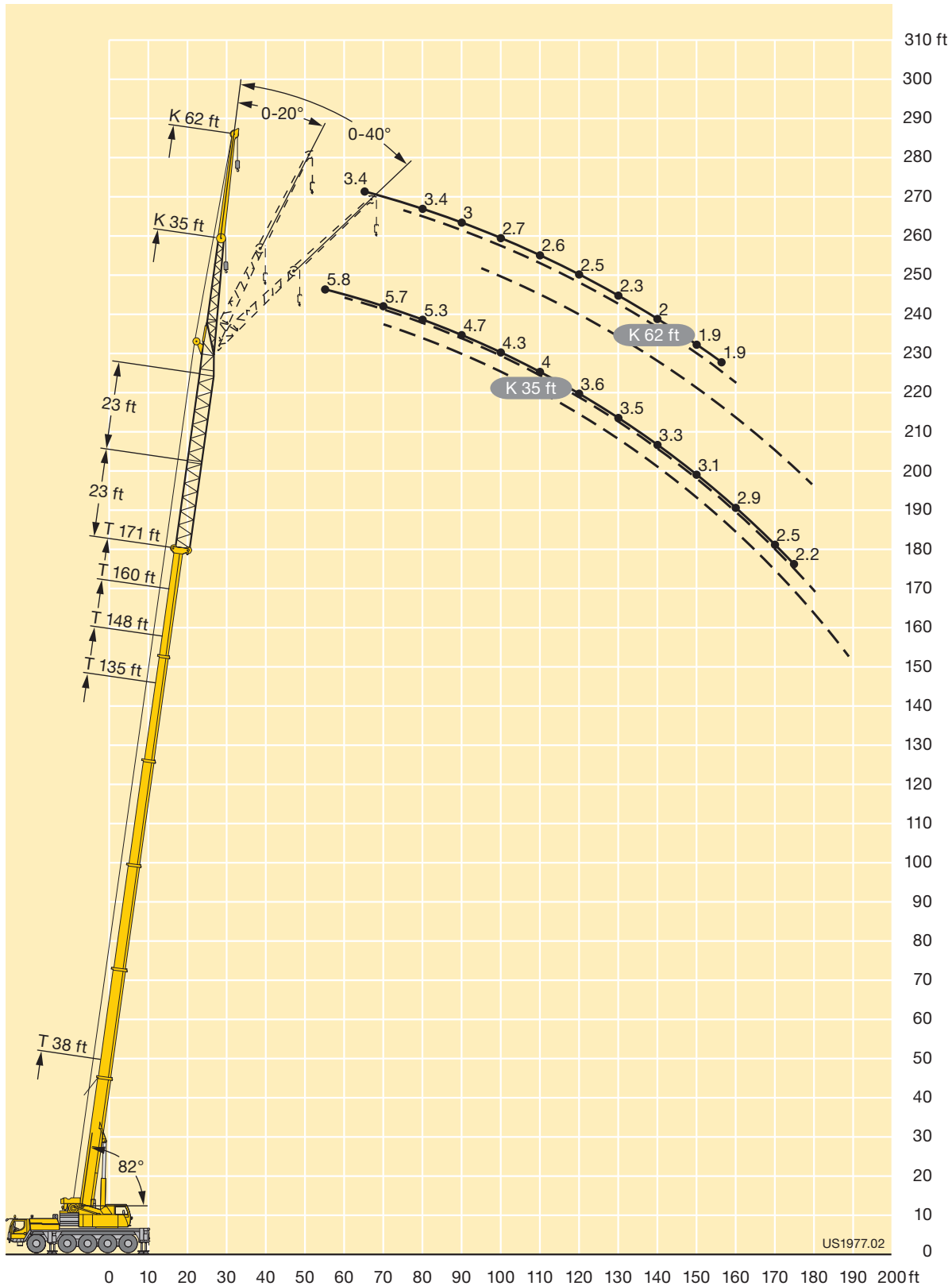
# Lifting capacities Forces de levage

**TVNZK**



| ft  | 38 ft + 46 ft |     |     | 135 ft + 46 ft |     |     | 148 ft + 46 ft |     |     | 160 ft + 46 ft |     |     | 171 ft + 46 ft |     |     | ft  |
|-----|---------------|-----|-----|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|-----|
|     | 62 ft         |     |     | 62 ft          |     |     | 62 ft          |     |     | 62 ft          |     |     | 62 ft          |     |     |     |
|     | 0°            | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° |     |
| 26  | 8.5           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 26  |
| 28  | 8.5           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 28  |
| 30  | 8.5           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 30  |
| 32  | 8.5           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 32  |
| 34  | 8.4           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 34  |
| 36  | 8.3           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 36  |
| 38  | 8             |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 38  |
| 40  | 7.8           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 40  |
| 45  | 7.4           |     |     |                |     |     |                |     |     |                |     |     |                |     |     | 45  |
| 50  | 7.1           | 7   |     | 6.2            |     |     |                |     |     |                |     |     |                |     |     | 50  |
| 55  | 6.7           | 6.9 |     | 6              |     |     | 5.7            |     |     | 4.9            |     |     |                |     |     | 55  |
| 60  | 6.3           | 6.5 | 7   | 5.8            |     |     | 5.6            |     |     | 4.9            |     |     |                |     |     | 60  |
| 65  | 6             | 6.2 | 6.7 | 5.7            |     |     | 5.4            |     |     | 4.9            |     |     | 3.4            |     |     | 65  |
| 70  | 5.6           | 5.8 | 6.3 | 5.5            | 5.3 |     | 5.2            |     |     | 4.9            |     |     | 3.4            |     |     | 70  |
| 75  | 5.3           | 5.5 | 5.9 | 5.3            | 5.2 |     | 5              | 4.9 |     | 4.8            | 4.6 |     | 3.4            | 3.6 |     | 75  |
| 80  | 5.1           | 5.3 | 5.5 | 5.1            | 4.8 |     | 4.8            | 4.8 |     | 4.6            | 4.6 |     | 3.4            | 3.6 |     | 80  |
| 85  | 4.7           | 5   | 5.2 | 4.9            | 4.7 | 4.6 | 4.7            | 4.7 | 4.4 | 4.4            | 4.4 | 4.1 | 3.2            | 3.6 |     | 85  |
| 90  | 4.5           | 4.7 | 4.9 | 4.7            | 4.5 | 4.5 | 4.5            | 4.5 | 4.4 | 4.3            | 4.2 | 4.1 | 3              | 3.6 |     | 90  |
| 95  | 4.4           | 4.5 | 4.7 | 4.5            | 4.3 | 4.3 | 4.3            | 4.3 | 4.3 | 4.1            | 4   | 4   | 2.8            | 3.6 | 3.2 | 95  |
| 100 | 4.3           | 4.3 | 4.3 | 4.4            | 4.1 | 4.1 | 4.1            | 4.1 | 4.1 | 4              | 3.9 | 3.8 | 2.7            | 3.4 | 3.1 | 100 |
| 105 | 4.1           | 4.2 | 4.1 | 4.2            | 3.9 | 3.9 | 3.9            | 3.9 | 3.9 | 3.9            | 3.8 | 3.7 | 2.7            | 3.2 | 3   | 105 |
| 110 | 3.8           | 4   | 3.9 | 4              | 3.7 | 3.7 | 3.9            | 3.7 | 3.7 | 3.7            | 3.7 | 3.6 | 2.6            | 3.1 | 2.9 | 110 |
| 115 | 3.6           | 3.8 | 3.6 | 3.8            | 3.5 | 3.7 | 3.8            | 3.5 | 3.6 | 3.6            | 3.6 | 3.5 | 2.5            | 3   | 2.9 | 115 |
| 120 | 3.6           | 3.6 | 3.3 | 3.6            | 3.4 | 3.5 | 3.6            | 3.5 | 3.4 | 3.4            | 3.6 | 3.4 | 2.5            | 2.9 | 2.9 | 120 |
| 125 | 3.4           | 3.4 | 2.9 | 3.4            | 3.4 | 3.4 | 3.4            | 3.4 | 3.3 | 3.3            | 3.5 | 3.2 | 2.4            | 2.7 | 2.8 | 125 |
| 130 | 3             | 3   | 2.5 | 3.2            | 3.2 | 3.2 | 3.2            | 3.2 | 3.3 | 3.2            | 3.3 | 3.1 | 2.3            | 2.5 | 2.7 | 130 |
| 135 |               | 2.8 |     | 3.2            | 3   | 3   | 3.2            | 3   | 3.1 | 3.1            | 3.1 | 3.1 | 2.1            | 2.4 | 2.5 | 135 |
| 140 |               |     |     | 3.1            | 2.9 | 2.9 | 3.1            | 2.9 | 3.1 | 3              | 3   | 2.9 | 2              | 2.3 | 2.5 | 140 |
| 145 |               |     |     | 2.9            | 2.9 | 2.9 | 2.9            | 2.9 | 3   | 2.9            | 2.9 | 2.9 | 1.9            | 2.3 | 2.4 | 145 |
| 150 |               |     |     | 2.7            | 2.9 | 2.9 | 2.7            | 2.9 | 2.9 | 2.7            | 2.9 | 2.9 | 1.9            | 2.2 | 2.4 | 150 |
| 155 |               |     |     | 2.7            | 2.8 | 2.9 | 2.7            | 2.9 | 2.9 | 2.7            | 2.9 | 2.9 | 1.9            | 2   | 2.4 | 155 |
| 160 |               |     |     | 2.6            | 2.7 | 2.8 | 2.7            | 2.9 | 2.8 | 2.7            | 2.9 | 2.8 |                | 2   | 2.4 | 160 |
| 165 |               |     |     | 2.5            | 2.6 | 2.7 | 2.7            | 2.7 | 2.7 | 2.7            | 2.7 | 2.7 |                |     | 2.2 | 165 |
| 170 |               |     |     | 2.4            | 2.5 | 2.7 | 2.7            | 2.7 | 2.6 | 2.6            | 2.6 | 2.6 |                |     | 2.1 | 170 |
| 175 |               |     |     | 2.4            | 2.5 | 2.5 | 2.7            | 2.5 | 2.5 | 2.5            | 2.6 | 2.5 |                |     | 2   | 175 |
| 180 |               |     |     | 2.4            | 2.4 | 2.4 | 2.6            | 2.4 | 2.4 | 2.3            | 2.4 | 2.4 |                |     | 2   | 180 |
| 185 |               |     |     | 2.4            | 2.3 | 2.4 | 2.5            | 2.3 | 2.4 | 2              | 2.4 | 2.4 |                |     |     | 185 |
| 190 |               |     |     | 2.4            | 2.2 | 2.4 | 2.4            | 2.2 | 2.3 | 1.7            | 2.2 | 2.4 |                |     |     | 190 |
| 195 |               |     |     | 2.4            | 2.1 | 2.2 | 2.2            | 2.2 | 2.3 |                | 1.9 | 2.2 |                |     |     | 195 |
| 200 |               |     |     | 2.4            | 2.1 | 2.1 | 1.9            | 2.2 | 2.2 |                |     | 1.9 |                |     |     | 200 |
| 205 |               |     |     | 2.2            | 2   |     |                | 2   | 2.2 |                |     |     |                |     |     | 205 |
| 210 |               |     |     | 1.9            | 1.9 |     |                | 1.8 | 1.9 |                |     |     |                |     |     | 210 |
| 215 |               |     |     |                | 1.9 |     |                |     |     |                |     |     |                |     |     | 215 |

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# Lifting capacities Forces de levage

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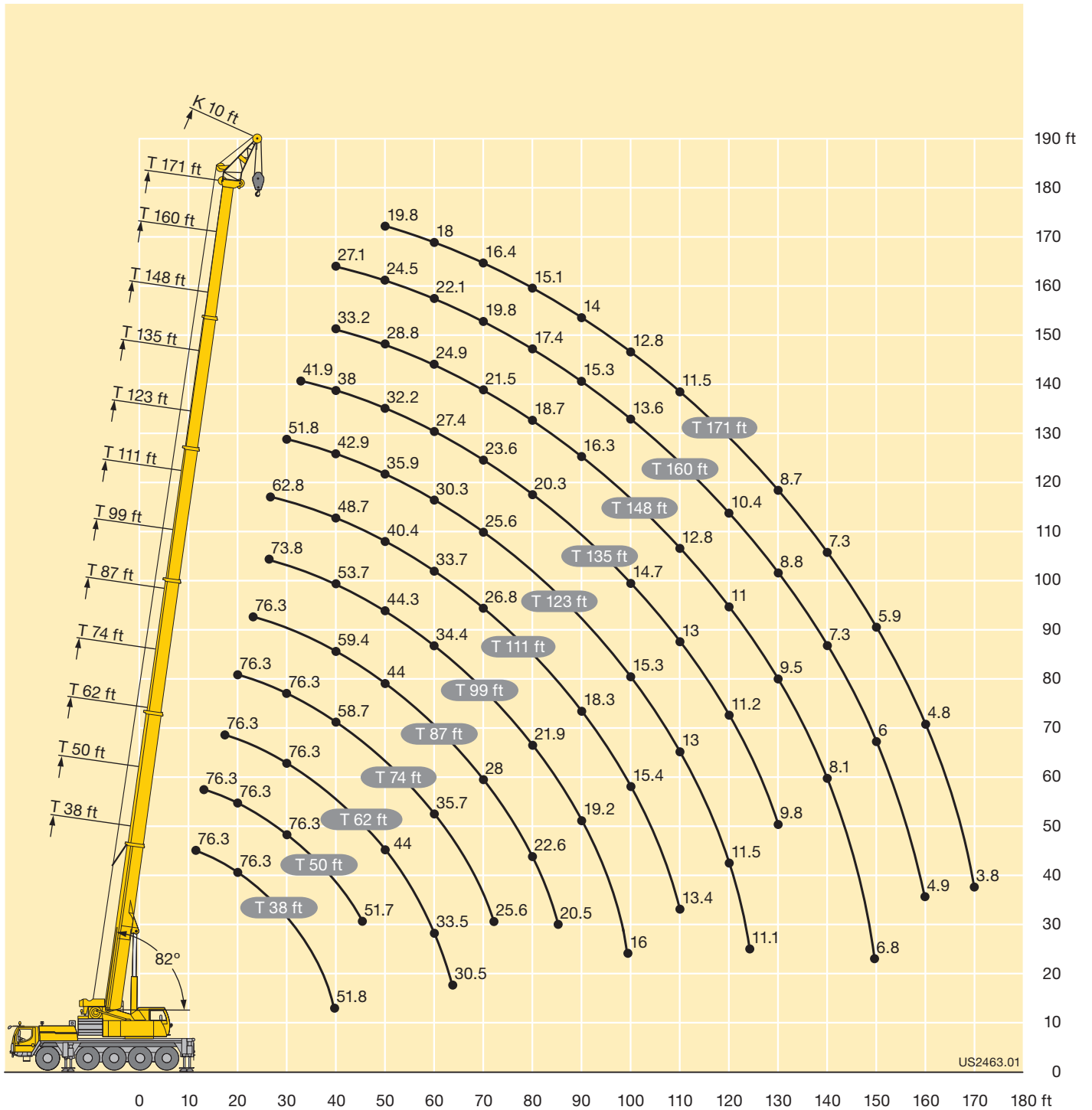
|     | 10 ft |       |       |       |       |       |        |        |        |        |        |      |        |
|-----|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|------|--------|
|     | 38 ft | 50 ft | 62 ft | 74 ft | 87 ft | 99 ft | 111 ft | 123 ft | 135 ft | 148 ft | 160 ft |      | 171 ft |
| 12  | 76.3  |       |       |       |       |       |        |        |        |        |        |      | 12     |
| 13  | 76.3  | 76.3  |       |       |       |       |        |        |        |        |        |      | 13     |
| 14  | 76.3  | 76.3  |       |       |       |       |        |        |        |        |        |      | 14     |
| 15  | 76.3  | 76.3  |       |       |       |       |        |        |        |        |        |      | 15     |
| 16  | 76.3  | 76.3  | 76.3  |       |       |       |        |        |        |        |        |      | 16     |
| 17  | 76.3  | 76.3  | 76.3  |       |       |       |        |        |        |        |        |      | 17     |
| 18  | 76.3  | 76.3  | 76.3  |       |       |       |        |        |        |        |        |      | 18     |
| 19  | 76.3  | 76.3  | 76.3  |       |       |       |        |        |        |        |        |      | 19     |
| 20  | 76.3  | 76.3  | 76.3  | 76.3  |       |       |        |        |        |        |        |      | 20     |
| 22  | 76.3  | 76.3  | 76.3  | 76.3  |       |       |        |        |        |        |        |      | 22     |
| 24  | 76.3  | 76.3  | 76.3  | 76.3  | 76.3  |       |        |        |        |        |        |      | 24     |
| 26  | 76.3  | 76.3  | 76.3  | 76.3  | 76.3  | 73.8  | 62.8   |        |        |        |        |      | 26     |
| 28  | 76.3  | 76.3  | 76.3  | 76.3  | 76.3  | 70.4  | 61     |        |        |        |        |      | 28     |
| 30  | 74.9  | 76.3  | 76.3  | 76.3  | 76.3  | 67    | 59.2   | 51.8   |        |        |        |      | 30     |
| 32  | 71.1  | 76.3  | 76.3  | 76    | 75.6  | 64    | 57.2   | 49.9   |        |        |        |      | 32     |
| 34  | 66.9  | 73.9  | 73.1  | 72.5  | 72.2  | 61.2  | 54.9   | 48     | 41.9   |        |        |      | 34     |
| 36  | 62.6  | 69.2  | 68.3  | 67.5  | 67.9  | 58.5  | 52.7   | 46.2   | 40.6   |        |        |      | 36     |
| 38  | 58.3  | 64.7  | 63.7  | 62.8  | 63.3  | 56.1  | 50.6   | 44.5   | 39.3   |        |        |      | 38     |
| 40  | 51.8  | 60.4  | 59.5  | 58.7  | 59.4  | 53.7  | 48.7   | 42.9   | 38     | 33.2   | 27.1   |      | 40     |
| 45  |       | 51.7  | 50.9  | 50.3  | 50.9  | 48.7  | 44.3   | 39.2   | 34.9   | 31     | 25.8   |      | 45     |
| 50  |       |       | 44    | 43.4  | 44    | 44.3  | 40.4   | 35.9   | 32.2   | 28.8   | 24.5   | 19.8 | 50     |
| 55  |       |       | 38.2  | 38.7  | 40    | 39.1  | 37     | 32.9   | 29.7   | 26.8   | 23.3   | 18.9 | 55     |
| 60  |       |       | 33.5  | 35.7  | 35.3  | 34.4  | 33.7   | 30.3   | 27.4   | 24.9   | 22.1   | 18   | 60     |
| 65  |       |       | 30.5  | 31.8  | 31.4  | 30.4  | 30.1   | 28     | 25.4   | 23.1   | 21     | 17.2 | 65     |
| 70  |       |       |       | 28.4  | 28    | 27.3  | 26.8   | 25.6   | 23.6   | 21.5   | 19.8   | 16.4 | 70     |
| 75  |       |       |       | 25.6  | 25.1  | 24.4  | 24.1   | 23.8   | 21.8   | 20.1   | 18.6   | 15.7 | 75     |
| 80  |       |       |       |       | 22.6  | 21.9  | 22.4   | 21.5   | 20.3   | 18.7   | 17.4   | 15.1 | 80     |
| 85  |       |       |       |       | 20.5  | 20.5  | 20.2   | 19.3   | 18.8   | 17.5   | 16.3   | 14.5 | 85     |
| 90  |       |       |       |       |       | 19.2  | 18.3   | 17.5   | 17.7   | 16.3   | 15.3   | 14   | 90     |
| 95  |       |       |       |       |       | 17.5  | 16.6   | 16.2   | 16.2   | 15.2   | 14.4   | 13.5 | 95     |
| 100 |       |       |       |       |       | 16    | 15.4   | 15.3   | 14.7   | 14.4   | 13.6   | 12.8 | 100    |
| 105 |       |       |       |       |       |       | 14.3   | 14.1   | 13.8   | 13.7   | 12.8   | 12.2 | 105    |
| 110 |       |       |       |       |       |       | 13.4   | 13     | 13     | 12.8   | 12.1   | 11.5 | 110    |
| 115 |       |       |       |       |       |       |        | 12.1   | 12     | 11.9   | 11.3   | 10.9 | 115    |
| 120 |       |       |       |       |       |       |        | 11.5   | 11.2   | 11     | 10.4   | 10.3 | 120    |
| 125 |       |       |       |       |       |       |        | 11.1   | 10.5   | 10.2   | 9.6    | 9.5  | 125    |
| 130 |       |       |       |       |       |       |        |        | 9.8    | 9.5    | 8.8    | 8.7  | 130    |
| 135 |       |       |       |       |       |       |        |        |        | 8.8    | 8.1    | 8    | 135    |
| 140 |       |       |       |       |       |       |        |        |        | 8.1    | 7.3    | 7.3  | 140    |
| 145 |       |       |       |       |       |       |        |        |        | 7.5    | 6.6    | 6.6  | 145    |
| 150 |       |       |       |       |       |       |        |        |        | 6.8    | 6      | 5.9  | 150    |
| 155 |       |       |       |       |       |       |        |        |        |        | 5.4    | 5.4  | 155    |
| 160 |       |       |       |       |       |       |        |        |        |        | 4.9    | 4.8  | 160    |
| 165 |       |       |       |       |       |       |        |        |        |        |        | 4.3  | 165    |
| 170 |       |       |       |       |       |       |        |        |        |        |        | 3.8  | 170    |

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# Lifting heights Hauteurs de levage

TK



# Equipment Equipment

## Crane carrier

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| <b>Frame</b>             | Self-manufactured, torsion-resistant box-type design of high-tensile fine grained structural steel.  |
| <b>Outriggers</b>        | 4-point supporting system, hydraulically telescopic into horizontal and vertical direction. Operation with remote control, automatic support leveling, electronic inclination display  |
| <b>Engine</b>            | 6-cylinder Diesel, make Liebherr, watercooled, output 370 kW (503 h.p.), max. torque 1737 lbs-ft. Exhaust emissions acc. to 97/68/EG and EPA/CARB. Fuel reservoir: 130 gallons.  |
| <b>Transmission</b>      | ZF 12-speed gear box with automatic control system AS-TRONIC. ZF-intarder fitted directly to the gear. Two-stage transfer case with lockable transfer differential.  |
| <b>Axles</b>             | Low maintenance carrier axles, all 5 axles steered. Axle 2, 4 and 5 are equipped with planetary gears, all driven axles with transverse differential locks, axle 4 with longitudinal differential lock.  |
| <b>Suspension</b>        | All axles are mounted on hydropneumatic suspension and are lockable hydraulically.   |
| <b>Tyres</b>             | 10 tyres, size: 445/95 R 25 (16.00 R 25).  |
| <b>Steering</b>          | 2-circuit system with hydraulic servo steering. Active speed depending rear axle steering, special steering programs for various driving situations.   |
| <b>Brakes</b>            | Service brake: Dual circuit, all-wheel servo-air brake.<br>Parking brake: Spring brake actuator acting on all the wheels of axles 1, 2, 3 and 4.<br>Sustained-action brakes: Engine brake as exhaust retarder with Liebherr additional brake system ZBS. Intarder on gear. |
| <b>Driving cab</b>       | Spacious and comfortable sheet steel cab mounted on rubber shock absorbers, safety glass windows.  |
| <b>Electrical system</b> | Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each.   |

## Crane superstructure

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|--------------|---|
| <b>Frame</b> | Liebherr-manufactured, torsionally rigid steel construction made from high-tensile fine-grain steel. Triple-roller slewing rim. |
|--------------|---|

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|--------------------------|---|
| <b>Crane engine</b>      | 4-cylinder Diesel, make Liebherr, watercooled, output 129 kW (175 h.p.), max. torque 601 ft-lbs. Exhaust emissions acc. to 97/68/EG and EPA/CARB. Fuel reservoir: 68 gallons.   |
| <b>Crane drive</b>       | Diesel-hydraulic by 1 axial piston variable displacement twin pump with servo control and power regulation.   |
| <b>Control</b>           | Electric „Load Sensing“ control, simultaneous operation of 4 working motions, 2 self-centering hand control levers (joy-stick type).  |
| <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 pilot-controlled brake valve.   |
| <b>Slewing gear</b>      | Axial piston fixed displacement motor, planetary gear, spring-loaded static brake.  |
| <b>Crane cab</b>         | All-steel construction, entirely galvanized, powder coated, with safety glazing, operating and control instruments, comfortably equipped, cab tiltable backwards.               |
| <b>Safety devices</b>    | LICCON2 safe load indicator, test system hoist limit switch, safety valves to prevent pipe and hose ruptures.   |
| <b>Telescopic boom</b>   | 1 base section and 5 telescopic sections. All telescopic sections extendable individually by means of the rapid-cycle telescoping system TELEMATIK. Boom length 38 ft – 171 ft. |
| <b>Counterweight</b>     | 33100 lbs basic counterweight.  |
| <b>Electrical system</b> | Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each.  |

## Additional equipment

|                                  |  |
|----------------------------------|--|
| <b>Swing-away jib</b>            | 35 ft – 62 ft long, mountable to the telescopic boom at 0°, 20° or 40°. Hydraulic ram for operating the swing-away jib from 0° – 40° (option). |
| <b>Erection jib</b>              | 10 ft  |
| <b>Telescopic boom extension</b> | 23 ft – 46 ft long lattice section, thus 23 ft – 46 ft higher pinning point for swing-away jib.  |
| <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>  | 44100 lbs for a total counterweight of 77200 lbs.  |
| <b>Tyres</b>                     | 10 tyres, size 525/80 R 25 (20.5 R 25).  |
| <b>Drive 10 x 8</b>              | Additional drive of the 1 <sup>st</sup> axle.  |

Other item of equipment available on request.

## Equipment Équipement

### Châssis porteur

|                                |   |
|--------------------------------|---|
| <b>Châssis</b>                 | Châssis résistant à la torsion de fabrication Liebherr, en acier à grains fins très résistant.  |
| <b>Stabilisateurs</b>          | Dispositif de calage horizontal et vertical en 4 points, entièrement déployable hydrauliquement. Utilisation avec commande à distance, mise à niveau automatique du calage, inclinomètre électronique.  |
| <b>Moteur</b>                  | Moteur diesel, 6 cylindres, fabriqué par Liebherr, à refroidissement par eau, de 370 kW (503 ch), couple max. 1737 lbs-ft. Emissions des gaz d'échappement conformes aux directives 97/68/EG et EPA/CARB. Capacité du réservoir à carburant: 130 gallons.   |
| <b>Boîte de vitesse</b>        | Boîte de vitesses ZF à 12 rapports, mécanisme automatisé à commande AS-TRONIC. Ralentisseur hydrodynamique ZF directement accouplé à la boîte. Boîte de transfert à 2 étages avec blocage de différentiel.  |
| <b>Essieux</b>                 | Essieux nécessitant peu d'entretien, les 5 essieux sont directeurs. Les essieux 2, 4 et 5 sont des essieux planétaires, tous les essieux moteurs avec différentiel transversal et l'essieu 4 avec différentiel longitudinal.  |
| <b>Suspension</b>              | Suspension hydropneumatique sur tous les essieux. Chaque essieu peut être bloqué hydrauliquement.   |
| <b>Pneumatiques</b>            | 10 pneus de taille: 445/95 R 25 (16.00 R 25).   |
| <b>Direction</b>               | 2 circuits avec direction assistée hydraulique. Direction active des essieux arrière et dépendante de la vitesse, programmes de direction spéciaux pour les différents modes de déplacement.  |
| <b>Freins</b>                  | Frein de service: servofrein pneumatique pour toutes les roues, à 2 circuits.<br>Frein à main: accumulateur à ressort agissant sur les roues des essieux 1, 2, 3 et 4.<br>Freins continus: frein moteur par clapet sur échappement avec système de ralentissement Liebherr ZBS. Ralentisseur accouplé à la boîte de vitesses. |
| <b>Cabine</b>                  | Cabine spacieuse, en tôle d'acier, équipement «grand confort», suspendue sur silent blocs, vitrage de sécurité.   |
| <b>Installation électrique</b> | Technique moderne de transmission de données par BUS de données, courant continu 24 Volts, 2 batteries de 170 Ah chacune.   |

### Partie tournante

|                |  |
|----------------|--|
| <b>Châssis</b> | Fabrication Liebherr, construction soudée indéformable, en acier à grain fin haute résistance. Couronne d'orientation à triple rangée de rouleaux. |
|----------------|--|

|                                |  |
|--------------------------------|--|
| <b>Moteur</b>                  | Moteur diesel Liebherr, 4 cylindres, à refroidissement par eau, de 129 kW (175 ch), couple max. 601 lbs-ft. Emissions des gaz d'échappement conformes aux directives 97/68/EG et EPA/CARB. Capacité du réservoir à carburant : 68 gallons. |
| <b>Entraînement</b>            | Diesel-hydraulique avec 1 double pompe à débit variable à pistons axiaux avec servo-commande et régulation de puissance.   |
| <b>Direction</b>               | Direction électrique "Load Sensing", 4 mouvements de travail dirigeable simultanément, deux leviers de commande à 4 positions et à autocentrage.   |
| <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 clapet de frein commandé.  |
| <b>Dispositif de rotation</b>  | Moteur à cylindrée constante à pistons axiaux, engrenage planétaire, frein d'arrêt commandé par ressort.   |
| <b>Cabine du grutier</b>       | Construction en tôle d'acier entièrement zinguée avec peinture par poudrage et cuisson au four, avec glaces de sécurité, appareils de commande et de contrôle, équipement confortable, cabine inclinable vers l'arrière.                   |
| <b>Dispositif de sécurité</b>  | Contrôleur de charge "LICCON2", système test limitation de la course pour le levage, soupape de sûreté contre la rupture de tubes et de tuyaux.  |
| <b>Flèche télescopique</b>     | Un élément de base et de 5 télescopes. Chaque partie peut être télescopée individuellement à l'aide du système de télescopage séquentiel rapide TELEMATIK. Longueur de flèche: 38 ft – 171 ft.   |
| <b>Contrepoids</b>             | Contrepoids principal de 33100 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>            | Longueur: 35 ft – 62 ft, montable sous un angle de 0°, 20° ou 40°. Vérin hydraulique pour le relevage de la fléchette pliante de 0° à 40° (en option). |
| <b>Fléchette de montage</b>         | 10 ft  |
| <b>Rallonge flèche télescopique</b> | Élément en treillis de 23 ft – 46 ft, de cette manière point d'articulation plus haute de 23 ft – 46 ft pour la flèche pliante.                        |
| <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>   | 44100 lbs pour un contrepoids total de 77200 lbs.  |
| <b>Pneumatiques</b>                 | 10 pneus. Taille: 525/80 R 25 (20.5 R 25).   |
| <b>Entraînement 10 x 8</b>          | Essieu 1 est entraîné additionnellement.   |

Autres équipements supplémentaires sur demande.

## Remarks referring to load charts

1. The lifting capacities do not exceed 85 % 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 23 ft/s (7 m/s, 15.7 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 must be deducted from the lifting capacities.
5. Working radii are measured from the slewing centreline.
6. The lifting capacities given for the telescopic boom only apply if the folding jib is taken off.
7. Lifting capacities above 182100 lbs / 215400 lbs only with additional pulley block/special equipment.
8. 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 85 % 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 23 ft/s (7 m/s, 15.7 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 forces de levage sont données en kips.
4. Les poids des moufles et crochets doit être soustrait des charges indiquées.
5. Les portées sont calculées à partir de l'axe de rotation.
6. Les forces indiquées pour la flèche télescopique s'entendent fléchette déployable déposée.
7. Forces de levage plus de 182100 lbs / 215400 lbs seulement avec moufle additionnel/équipement supplémentaire.
8. 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.