

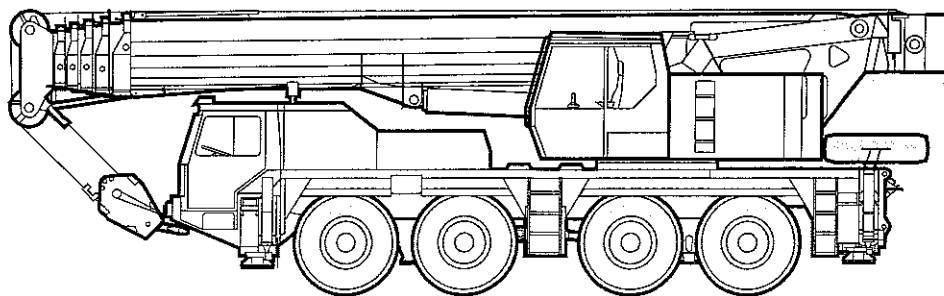
**Technical Data**  
**Caractéristiques techniques**

# LTM 1090/2

**Mobile Crane**  
**Grue automotrice**

Telescopic boom  
Flèche télescopique

**171 ft**



**VERULLED**

# Lifting capacities at telescopic boom. Forces de levage à la flèche télescopique.



38 ft - 171 ft



0° / 360°



44 100 lbs

85%

| ft  | 38 ft |      | 51 ft | 63 ft | 75 ft | 87 ft | 99 ft | 111 ft | 124 ft | 136 ft | 148 ft | 160 ft | 171 ft | ft  |
|-----|-------|------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-----|
|     | 1)    | 2)   |       |       |       |       |       |        |        |        |        |        |        |     |
| 9   | 220*  |      |       |       |       |       |       |        |        |        |        |        |        | 9   |
| 10  | 216   | 179  |       |       |       |       |       |        |        |        |        |        |        | 10  |
| 11  | 204   | 179  |       |       |       |       |       |        |        |        |        |        |        | 11  |
| 12  | 192   | 175  | 165   | 143   |       |       |       |        |        |        |        |        |        | 12  |
| 13  | 180   | 168  | 160   | 137   |       |       |       |        |        |        |        |        |        | 13  |
| 14  | 168   | 160  | 156   | 132   | 114   |       |       |        |        |        |        |        |        | 14  |
| 15  | 157   | 152  | 151   | 127   | 110   | 98.5  |       |        |        |        |        |        |        | 15  |
| 16  | 148   | 146  | 145   | 123   | 107   | 95.5  |       |        |        |        |        |        |        | 16  |
| 17  | 140   | 139  | 138   | 118   | 103   | 92.5  | 80.5  | 69.5   |        |        |        |        |        | 17  |
| 18  | 132   | 132  | 131   | 115   | 99.5  | 89.5  | 78    | 68     |        |        |        |        |        | 18  |
| 20  | 118   | 118  | 117   | 107   | 93    | 84    | 74    | 65.5   | 56.5   |        |        |        |        | 20  |
| 22  | 107   | 107  | 106   | 101   | 87.5  | 78.5  | 70.5  | 62.5   | 54.5   |        |        |        |        | 22  |
| 24  | 97    | 96.5 | 96    | 92.5  | 82    | 74    | 67    | 59.4   | 52.4   | 45.5   |        |        |        | 24  |
| 26  | 88.5  | 87   | 86    | 82.5  | 76.5  | 69.5  | 63.5  | 56.7   | 50.2   | 44.1   |        |        |        | 26  |
| 28  |       |      | 78    | 75    | 69.5  | 65.5  | 60.5  | 54.2   | 48     | 42.5   | 36.3   | 29.7   |        | 28  |
| 30  |       |      | 70.5  | 67.5  | 63    | 61    | 57.4  | 51.8   | 45.9   | 40.9   | 35.4   | 28.9   | 24.5   | 30  |
| 32  |       |      | 64.5  | 62    | 57.7  | 55.7  | 54    | 49.6   | 44     | 39.4   | 34.5   | 28.2   | 23.9   | 32  |
| 34  |       |      | 59.6  | 57.2  | 53.2  | 51.4  | 50.5  | 47.3   | 42.2   | 38     | 33.6   | 27.6   | 23.4   | 34  |
| 36  |       |      | 55.2  | 53    | 49.3  | 47.7  | 47    | 45     | 40.5   | 36.6   | 32.6   | 26.9   | 22.8   | 36  |
| 38  |       |      | 50.9  | 48.9  | 45.4  | 44    | 43.4  | 42.6   | 38.8   | 35.2   | 31.6   | 26.2   | 22.2   | 38  |
| 40  |       |      |       | 45.2  | 41.8  | 40.6  | 40.2  | 40.3   | 37.1   | 33.9   | 30.6   | 25.6   | 21.7   | 40  |
| 45  |       |      |       | 37.9  | 35.1  | 34.2  | 34    | 34.2   | 33.3   | 30.9   | 28.1   | 24.1   | 20.4   | 45  |
| 50  |       |      |       |       | 32.6  | 29.9  | 29.1  | 29.1   | 29.5   | 28.3   | 25.8   | 22.8   | 19.2   | 50  |
| 55  |       |      |       |       |       | 25.5  | 24.9  | 25     | 26.9   | 25.2   | 23.7   | 21.5   | 18.1   | 55  |
| 60  |       |      |       |       |       |       | 22.9  | 21.6   | 24.7   | 22     | 22.6   | 21.8   | 20.3   | 60  |
| 65  |       |      |       |       |       |       | 21.2  | 18.7   | 22.5   | 20.3   | 20     | 19.9   | 18.8   | 65  |
| 70  |       |      |       |       |       |       | 19.8  | 16.8   | 20     | 18.8   | 17.6   | 17.8   | 17.5   | 70  |
| 75  |       |      |       |       |       |       |       | 15.6   | 17.6   | 17.3   | 16.2   | 16.3   | 16.2   | 75  |
| 80  |       |      |       |       |       |       |       | 14.6   | 15.6   | 15.8   | 15.2   | 15.1   | 14.8   | 80  |
| 85  |       |      |       |       |       |       |       | 13.8   | 13.9   | 14.1   | 14.3   | 13.7   | 13     | 85  |
| 90  |       |      |       |       |       |       |       |        | 12.5   | 12.6   | 13.1   | 12.3   | 11.6   | 90  |
| 95  |       |      |       |       |       |       |       |        | 11.3   | 11.9   | 11.9   | 11     | 10.2   | 95  |
| 100 |       |      |       |       |       |       |       |        |        | 11.2   | 10.7   | 9.8    | 9.1    | 100 |
| 105 |       |      |       |       |       |       |       |        |        | 10.7   | 9.6    | 8.8    | 8.2    | 105 |
| 110 |       |      |       |       |       |       |       |        |        | 9.8    | 8.8    | 8.1    | 7.4    | 110 |
| 115 |       |      |       |       |       |       |       |        |        |        | 8.1    | 7.3    | 6.6    | 115 |
| 120 |       |      |       |       |       |       |       |        |        |        | 7.5    | 6.7    | 5.9    | 120 |
| 125 |       |      |       |       |       |       |       |        |        |        |        | 6.1    | 5.3    | 125 |
| 130 |       |      |       |       |       |       |       |        |        |        |        | 5.6    | 4.8    | 130 |
| 135 |       |      |       |       |       |       |       |        |        |        |        | 5.2    | 4.3    | 135 |
| 140 |       |      |       |       |       |       |       |        |        |        |        |        | 3.8    | 140 |
| 145 |       |      |       |       |       |       |       |        |        |        |        |        |        | 145 |
| 150 |       |      |       |       |       |       |       |        |        |        |        |        |        | 150 |
| 155 |       |      |       |       |       |       |       |        |        |        |        |        |        | 155 |
| I   | 0     | 0/0  | 46/0  | 92/0  | 92/0  | 92/0  | 92/0  | 92/0   | 92/0   | 92/0   | 92/46  | 92     | 100    | I   |
| II  | 0     | 46/0 | 46/0  | 46/0  | 92/0  | 92/0  | 92/92 | 92/92  | 92/46  | 92/92  | 92/92  | 92     | 100    | II  |
| III | 0     | 0/0  | 0/0   | 0/0   | 0/92  | 46/92 | 46/92 | 92/92  | 92/92  | 92/92  | 92/92  | 92     | 100    | III |
| IV  | 0     | 0/0  | 0/46  | 0/46  | 0/46  | 0/92  | 46/46 | 46/92  | 46/92  | 46/92  | 92/92  | 92     | 100    | IV  |
| % V | 0     | 0/46 | 0/46  | 0/92  | 0/46  | 0/46  | 0/46  | 0/46   | 0/46   | 46/92  | 46/92  | 92     | 100    | V   |

1) over rear / en arrière.

\* with special equipment / avec équipement supplémentaire

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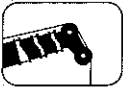
### Remarks referring to load charts.

- The tabulated lifting capacities do not exceed 85 % of the tipping load.
- The crane's structural steelwork is in accordance with DIN 15018, part 3. Design and construction of the crane comply with DIN 15018, part 2, and with F. E. M. regulations.
- The 85 % overturning limit values take into account wind force 5 = wind speed 20 mph.
- Lifting capacities are given in kips.
- The weight of the hook blocks and hooks must be deducted from the lifting capacities.
- Working radii are measured from the slewing centreline.
- The lifting capacities given for the telescopic boom only apply if the folding jib is taken off.
- Lifting capacities are subject to modifications.
- Lifting capacities above 179 kips only with additional pulley block / special equipment.

### Remarques relatives aux tableaux des charges.

- Les forces de levage indiquées ne dépassent pas 85 % de la charge de basculement.
- La norme DIN 15018, 3ème partie est appliquée pour les charpentes. La construction de la grue est réalisée conformément à la norme DIN 15018, 2ème partie, et aux règles de la F. E. M.
- A 85 % de la charge de basculement, il a été tenu compte d'un vent de force 5 = vitesse de vent 20 mph.
- Les forces de levage sont données en kips.
- Le poids des mouffes et crochets doit être soustrait des charges indiquées.
- Les portées sont calculées à partir de l'axe de rotation.
- Les forces indiquées pour la flèche télescopique s'entendent fléchette dépliée.
- Les forces de levage sont modifiables sans préavis.
- Forces de levage plus de 179 kips seulement avec équipement supplémentaire.

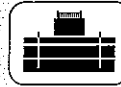
# Lifting capacities are given



38 ft - 171 ft



0° / 360°



26 900 lbs



85%

| ft  | 38 ft |      | 51 ft | 63 ft | 75 ft | 87 ft | 99 ft | 111 ft   | 124 ft   | 136 ft | 148 ft | 160 ft | 171 ft | ft  |
|-----|-------|------|-------|-------|-------|-------|-------|----------|----------|--------|--------|--------|--------|-----|
|     | D)    |      |       |       |       |       |       |          |          |        |        |        |        |     |
| 10  | 216   | 179  |       |       |       |       |       |          |          |        |        |        |        | 10  |
| 11  | 199   | 179  |       |       |       |       |       |          |          |        |        |        |        | 11  |
| 12  | 185   | 174  | 165   | 143   |       |       |       |          |          |        |        |        |        | 12  |
| 13  | 171   | 166  | 160   | 137   |       |       |       |          |          |        |        |        |        | 13  |
| 14  | 160   | 158  | 155   | 132   | 114   |       |       |          |          |        |        |        |        | 14  |
| 15  | 149   | 149  | 148   | 127   | 110   | 98.5  |       |          |          |        |        |        |        | 15  |
| 16  | 140   | 140  | 139   | 123   | 107   | 95.5  |       |          |          |        |        |        |        | 16  |
| 17  | 132   | 132  | 131   | 117   | 103   | 92.5  | 80.5  | 69.5     |          |        |        |        |        | 17  |
| 18  | 125   | 125  | 123   | 111   | 98.5  | 89.5  | 78    | 68       |          |        |        |        |        | 18  |
| 20  | 111   | 111  | 107   | 98    | 90    | 83    | 74    | 65.5     | 56.5     |        |        |        |        | 20  |
| 22  | 100   | 97.5 | 93.5  | 85.5  | 79    | 74.5  | 70    | 62.5     | 54.5     |        |        |        |        | 22  |
| 24  | 89.5  | 86.5 | 82    | 75.5  | 69.5  | 66.5  | 64.5  | 59.2     | 52.4     | 45.5   |        |        |        | 24  |
| 26  | 80.5  | 77   | 72.5  | 67    | 62    | 59.2  | 57.6  | 56.2     | 50.2     | 44.1   |        |        |        | 26  |
| 28  |       |      | 65.5  | 60.5  | 55.7  | 53.5  | 52.3  | 51.6     | 48       | 42.5   | 36.3   | 29.7   |        | 28  |
| 30  |       |      | 59.1  | 54.3  | 50.2  | 48.4  | 47.4  | 47       | 45.5     | 40.9   | 35.4   | 28.9   | 24.5   | 30  |
| 32  |       |      | 53.9  | 49.5  | 45.7  | 44.1  | 43.4  | 43.1     | 42       | 39.4   | 34.5   | 28.2   | 23.9   | 32  |
| 34  |       |      | 49.5  | 45.4  | 41.9  | 40.5  | 40    | 40       | 39       | 37.6   | 33.6   | 27.6   | 23.4   | 34  |
| 36  |       |      | 46.8  | 42    | 38.6  | 37.4  | 37    | 38.4     | 36.2     | 35.5   | 32.6   | 26.9   | 22.8   | 36  |
| 38  |       |      | 44    | 39.2  | 35.3  | 34.3  | 34    | 36.8     | 33.5     | 33.4   | 31.6   | 26.2   | 22.2   | 38  |
| 40  |       |      |       | 37.7  | 32.4  | 32.9  | 31.3  | 35       | 31       | 31.4   | 30.4   | 25.6   | 21.7   | 40  |
| 45  |       |      |       | 34.6  | 26.8  | 29.7  | 26.1  | 29.9     | 28.4     | 26.6   | 26.4   | 24.1   | 20.4   | 45  |
| 50  |       |      |       | 30    | 24.5  | 27.1  | 23.4  | 25.8     | 25.4     | 22.9   | 23.2   | 22.4   | 19.2   | 50  |
| 55  |       |      |       |       | 22.7  | 24.3  | 21.4  | 22.4     | 22.3     | 21.1   | 21.2   | 20.2   | 18.1   | 55  |
| 60  |       |      |       |       |       | 21.3  | 19.6  | 19.5     | 19.5     | 19.5   | 18.8   | 17.7   | 16.9   | 60  |
| 65  |       |      |       |       |       | 18.6  | 18.1  | 16.9     | 17.5     | 17.6   | 16.6   | 15.5   | 15.2   | 65  |
| 70  |       |      |       |       |       | 16.3  | 16.4  | 15.2     | 16.1     | 15.4   | 14.5   | 13.7   | 13.4   | 70  |
| 75  |       |      |       |       |       |       | 14.6  | 14.1     | 14.5     | 13.5   | 12.6   | 11.9   | 11.7   | 75  |
| 80  |       |      |       |       |       |       | 13.4  | 13       | 12.8     | 11.9   | 10.9   | 10.2   | 10     | 80  |
| 85  |       |      |       |       |       |       | 12.7  | 12       | 11.4     | 10.4   | 9.5    | 8.9    | 8.7    | 85  |
| 90  |       |      |       |       |       |       |       | 10.8     | 10.1     | 9.3    | 8.4    | 7.8    | 7.6    | 90  |
| 95  |       |      |       |       |       |       |       | 9.8      | 9.1      | 8.3    | 7.5    | 6.8    | 6.7    | 95  |
| 100 |       |      |       |       |       |       |       |          | 8.3      | 7.4    | 6.6    | 6      | 5.8    | 100 |
| 105 |       |      |       |       |       |       |       |          | 7.5      | 6.7    | 5.9    | 5.2    | 5      | 105 |
| 110 |       |      |       |       |       |       |       |          | 7        | 6      | 5.2    | 4.5    | 4.4    | 110 |
| 115 |       |      |       |       |       |       |       |          |          | 5.4    | 4.6    | 3.9    | 3.7    | 115 |
| 120 |       |      |       |       |       |       |       |          |          | 4.9    | 4.1    | 3.3    | 3.2    | 120 |
| 125 |       |      |       |       |       |       |       |          |          |        | 3.6    | 2.8    |        | 125 |
| 130 |       |      |       |       |       |       |       |          |          |        | 3.2    | 2.4    |        | 130 |
| 135 |       |      |       |       |       |       |       |          |          |        | 2.9    |        |        | 135 |
| I   | 0     |      | 0/0   | 46/0  | 92/0  | 92/0  | 92/0  | 92/0/0   | 92/0/0   | 92/0   | 92/46  | 92     | 100    | I   |
| II  | 0     |      | 46/0  | 46/0  | 46/0  | 92/0  | 92/0  | 92/92/0  | 92/92/46 | 92/92  | 92/92  | 92     | 100    | II  |
| III | 0     |      | 0/0   | 0/0   | 0/0   | 0/92  | 46/92 | 46/92/92 | 92/92/92 | 92/92  | 92/92  | 92     | 100    | III |
| IV  | 0     |      | 0/0   | 0/46  | 0/46  | 0/46  | 0/92  | 46/46/92 | 46/92/92 | 46/92  | 92/92  | 92     | 100    | IV  |
| V   | 0     |      | 0/46  | 0/46  | 0/92  | 0/46  | 0/46  | 0/46/92  | 0/46/92  | 46/92  | 46/92  | 92     | 100    | V   |

D) over rear / en arrière.

TAB 107164 / 107166

**Les forces de levage sont données**



38 ft - 63 ft



0°



44 100 / 26 900 lbs

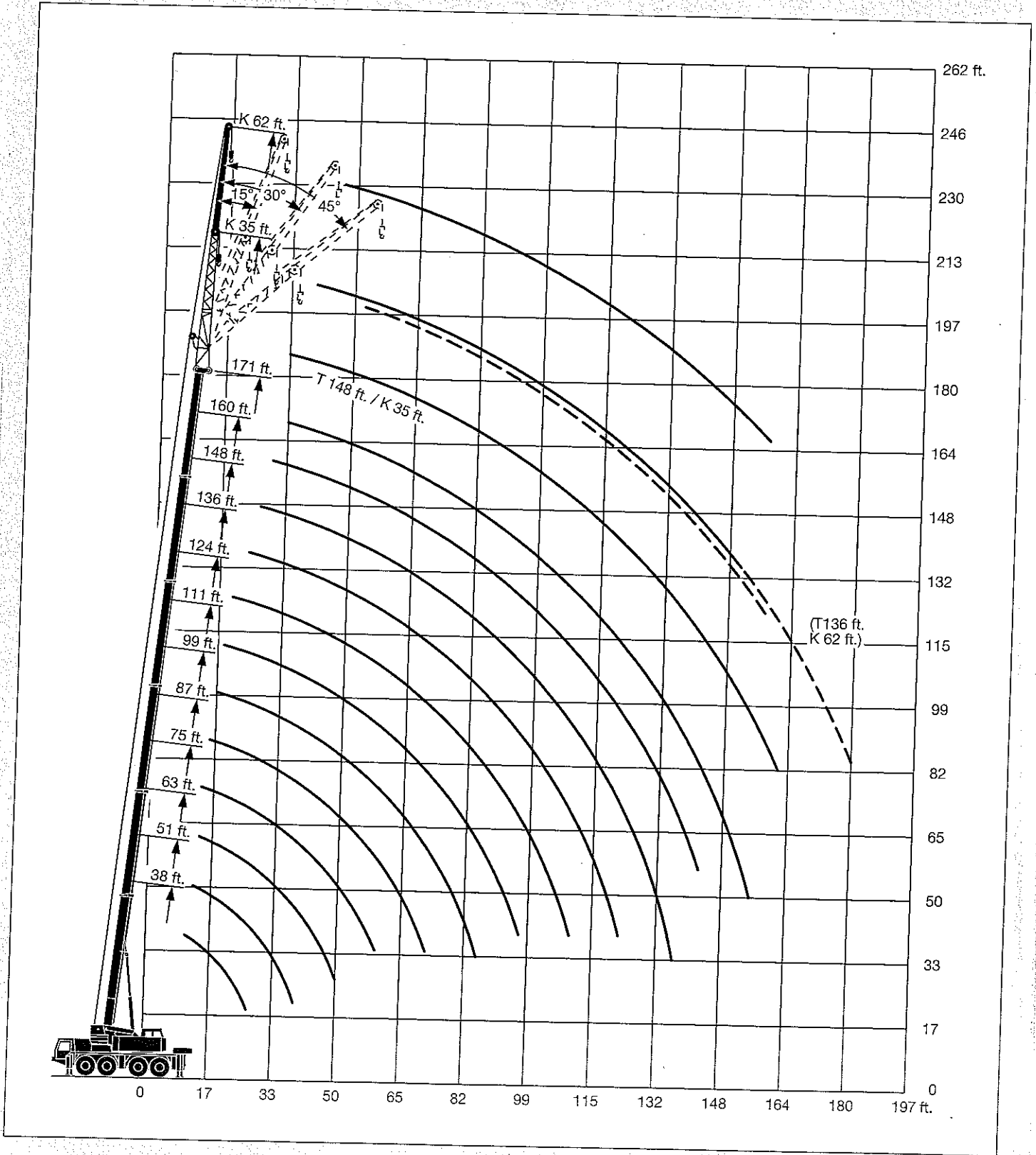
85%

| m   | 38 ft      |            | 51 ft      |            | 63 ft      |            | m   |
|-----|------------|------------|------------|------------|------------|------------|-----|
|     | 44 100 lbs | 31 800 lbs | 44 100 lbs | 31 800 lbs | 44 100 lbs | 31 800 lbs |     |
| 10  | 53.8       | 51.2       |            |            |            |            | 10  |
| 11  | 50.3       | 47.9       |            |            |            |            | 11  |
| 12  | 47.1       | 44.8       | 48.9       | 46.6       | 48.5       | 47.5       | 12  |
| 13  | 44.2       | 42         | 46         | 43.8       | 46.7       | 44.7       | 13  |
| 14  | 41.6       | 39.5       | 43.4       | 41.3       | 44.3       | 42.3       | 14  |
| 15  | 39.2       | 37.2       | 41         | 39         | 41.9       | 39.9       | 15  |
| 16  | 37         | 35.1       | 38.8       | 36.9       | 39.8       | 37.8       | 16  |
| 17  | 35         | 33.2       | 36.9       | 35         | 37.8       | 36         | 17  |
| 18  | 33.2       | 31.4       | 35.1       | 33.3       | 36         | 34.2       | 18  |
| 20  | 29.7       | 28.1       | 31.6       | 29.9       | 32.5       | 30.9       | 20  |
| 22  | 26.9       | 25.4       | 28.8       | 27.2       | 29.7       | 28.2       | 22  |
| 24  | 24.4       | 22.8       | 26.2       | 24.7       | 27.2       | 25.7       | 24  |
| 26  | 22.1       | 20.4       | 23.9       | 22.5       | 24.9       | 23.5       | 26  |
| 28  |            |            | 22         | 20.3       | 22.9       | 21.5       | 28  |
| 30  |            |            | 20.2       | 18.1       | 21.1       | 19.6       | 30  |
| 32  |            |            | 18.6       | 16.2       | 19.5       | 17.5       | 32  |
| 34  |            |            | 17.2       | 14.5       | 18.2       | 15.8       | 34  |
| 36  |            |            | 16         | 13.1       | 16.9       | 14.4       | 36  |
| 38  |            |            | 14.8       | 11.6       | 15.7       | 12.9       | 38  |
| 40  |            |            |            |            | 14.5       | 11.5       | 40  |
| 45  |            |            |            |            | 12.2       | 9          | 45  |
| 50  |            |            |            |            | 10.4       | 7.1        | 50  |
| I   | 0          |            | 0          |            | 0          |            | I   |
| II  | 0          |            | 0          |            | 0          |            | II  |
| III | 0          |            | 0          |            | 0          |            | III |
| IV  | 0          |            | 0          |            | 0          |            | IV  |
| % V | 0          |            | 46         |            | 92         |            | V % |

0° = over rear / sur arriere

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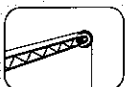
# Lifting heights. Hauteurs de levage.



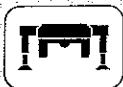
# Lifting capacities at the folding jib. Forces de levage à la fléchette pliante.



124 ft - 171 ft



35 ft



360°



44 100 lbs

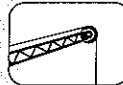
85%

| m   | 124 ft |      |      |     | 136 ft |      |     |     | 148 ft |      |     |     | 160 ft |     |     |     | 171 ft |     |     | m   |
|-----|--------|------|------|-----|--------|------|-----|-----|--------|------|-----|-----|--------|-----|-----|-----|--------|-----|-----|-----|
|     | 35 ft  |      |      |     | 35 ft  |      |     |     | 35 ft  |      |     |     | 35 ft  |     |     |     | 35 ft  |     |     |     |
|     | 0°     | 15°  | 30°  | 45° | 0°     | 15°  | 30° | 45° | 0°     | 15°  | 30° | 45° | 0°     | 15° | 30° | 45° | 0°     | 15° | 30° |     |
| 28  | 24.3   |      |      |     | 20     |      |     |     |        |      |     |     |        |     |     |     |        |     |     | 28  |
| 30  | 24.1   |      |      |     | 19.9   |      |     |     |        |      |     |     |        |     |     |     |        |     |     | 30  |
| 32  | 23.9   |      |      |     | 19.8   |      |     |     |        |      |     |     |        |     |     |     |        |     |     | 32  |
| 34  | 23.6   |      |      |     |        |      |     |     | 17.2   |      |     |     |        |     |     |     |        |     |     | 34  |
| 36  | 23.4   |      |      |     | 19.7   |      |     |     | 17.1   |      |     |     |        |     |     |     |        |     |     | 36  |
| 38  | 23.1   |      |      |     | 19.6   |      |     |     | 17     |      |     |     |        |     |     |     |        |     |     | 38  |
| 40  | 22.9   | 17   |      |     | 19.5   | 14.7 |     |     | 16.9   |      |     |     | 18.6   |     |     |     | 11.8   |     |     | 40  |
| 45  | 22.2   | 15.8 |      |     | 19.2   | 13.7 |     |     | 16.6   |      |     |     | 13.1   |     |     |     | 11.3   |     |     | 45  |
| 50  | 21.6   | 14.7 | 10.2 |     | 19     | 12.8 | 8.6 |     | 16.3   | 10.9 |     |     | 12.7   | 8.4 |     |     | 10.7   | 7   |     | 50  |
| 55  | 21     | 13.8 | 9.7  | 7.6 | 18.7   | 12   | 8.3 | 6.4 | 15.7   | 10.4 | 7   | 5.4 | 12.2   | 8.1 | 6.1 |     | 10.2   | 6.7 | 4.8 | 55  |
| 60  | 20.2   | 12.9 | 9.3  | 7.4 | 18.2   | 11.3 | 7.9 | 6.2 | 14.8   | 9.8  | 6.8 | 5.2 | 11.7   | 7.8 | 5.9 | 4.4 | 9.7    | 6.5 | 4.6 | 60  |
| 65  | 18.6   | 12.1 | 8.9  | 7.2 | 16.9   | 10.6 | 7.6 | 6.1 | 13.9   | 9.2  | 6.5 | 5.1 | 11     | 7.5 | 5.7 | 4.3 | 9.1    | 6.2 | 4.4 | 65  |
| 70  | 16.9   | 11.5 | 8.6  | 7   | 15.6   | 10   | 7.3 | 5.9 | 13.1   | 8.7  | 6.3 | 5   | 10.3   | 7.3 | 5.5 | 4.2 | 8.7    | 6   | 4.2 | 70  |
| 75  | 15.1   | 10.8 | 8.2  | 6.8 | 14.5   | 9.5  | 7.1 | 5.8 | 12.4   | 8.3  | 6   | 4.8 | 9.8    | 7   | 5.3 | 4.1 | 8.3    | 5.8 | 4   | 75  |
| 80  | 13.4   | 10.3 | 7.9  | 6.7 | 13.4   | 9    | 6.8 | 5.7 | 11.7   | 7.9  | 5.8 | 4.7 | 9.3    | 6.8 | 5.1 | 3.9 | 7.9    | 5.6 | 3.8 | 80  |
| 85  | 11.8   | 9.7  | 7.6  | 6.5 | 12.2   | 8.5  | 6.6 | 5.6 | 11.2   | 7.5  | 5.6 | 4.6 | 8.8    | 6.6 | 4.9 | 3.8 | 7.5    | 5.4 | 3.7 | 85  |
| 90  | 10.3   | 9.3  | 7.4  | 6.4 | 10.7   | 8.1  | 6.4 | 5.5 | 10.4   | 7.2  | 5.4 | 4.5 | 8.4    | 6.4 | 4.7 | 3.7 | 7.2    | 5.2 | 3.5 | 90  |
| 95  | 9.2    | 8.9  | 7.2  | 6.3 | 9.5    | 7.8  | 6.2 | 5.4 | 9.5    | 6.8  | 5.3 | 4.4 | 8      | 6.1 | 4.6 | 3.6 | 6.8    | 4.9 | 3.3 | 95  |
| 100 | 8.2    | 8.4  | 7    | 6.2 | 8.5    | 7.4  | 6   | 5.3 | 8.5    | 6.5  | 5.1 | 4.3 | 7.7    | 5.8 | 4.4 | 3.5 | 6.6    | 4.7 | 3.2 | 100 |
| 105 | 7.3    | 7.8  | 6.8  | 6   | 7.6    | 7.1  | 5.9 | 5.3 | 7.6    | 6.3  | 5   | 4.3 | 7.4    | 5.6 | 4.3 | 3.5 | 6.3    | 4.5 | 3.1 | 105 |
| 110 | 6.7    | 6.9  | 6.6  | 5.9 | 6.9    | 6.8  | 5.8 | 5.2 | 7.1    | 6    | 4.8 | 4.2 | 6.9    | 5.4 | 4.2 | 3.4 | 6      | 4.2 | 2.9 | 110 |
| 115 | 6.4    | 6.1  | 6.2  | 5.8 | 6.7    | 6.3  | 5.6 | 5.1 | 6.8    | 5.8  | 4.7 | 4.1 | 6.2    | 5.2 | 4   | 3.3 | 5.7    | 4   | 2.8 | 115 |
| 120 | 6.2    | 5.4  | 5.7  | 5.5 | 6.4    | 5.7  | 5.5 | 5.1 | 6.5    | 5.5  | 4.6 | 4.1 | 5.5    | 5   | 3.9 | 3.3 | 5.3    | 3.8 | 2.7 | 120 |
| 125 | 5.9    | 5.2  | 4.9  | 5   | 6.2    | 5.4  | 5.3 | 5   | 5.9    | 5.1  | 4.5 | 4   | 4.9    | 4.8 | 3.8 | 3.2 | 4.6    | 3.6 | 2.6 | 125 |
| 130 | 5.7    | 5.1  | 4.7  | 4.3 | 5.9    | 5.2  | 4.7 | 4.7 | 5.3    | 4.9  | 4.4 | 4   | 4.3    | 4.6 | 3.7 | 3.2 | 4.1    | 3.5 | 2.5 | 130 |
| 135 | 5.5    | 5    | 4.6  | 4.2 | 5.5    | 5.1  | 4.6 | 4.2 | 4.7    | 4.7  | 4.1 | 3.9 | 3.8    | 4.1 | 3.6 | 3.1 | 3.6    | 3.3 | 2.4 | 135 |
| 140 | 5.3    | 4.8  | 4.5  |     | 5      | 4.9  | 4.5 | 4.1 | 4.3    | 4.4  | 3.9 | 3.7 | 3.3    | 3.6 | 3.5 | 3.1 | 3.1    | 3.1 | 2.3 | 140 |
| 145 |        |      |      |     | 4.5    | 4.7  | 4.4 | 4   | 3.8    | 4    | 3.8 | 3.5 | 2.9    | 3.1 | 3.3 | 3.1 | 2.6    | 2.9 | 2.2 | 145 |
| 150 |        |      |      |     | 4.1    | 4.3  | 4.3 | 3.9 | 3.4    | 3.6  | 3.7 | 3.5 | 2.5    | 2.7 | 2.9 | 2.9 | 2.2    | 2.5 | 2.1 | 150 |
| 155 |        |      |      |     | 3.7    | 3.8  | 3.8 |     | 3      | 3.2  | 3.3 | 3.2 | 2.1    | 2.3 | 2.5 | 2.5 | 1.9    | 2.1 | 2   | 155 |
| 160 |        |      |      |     |        |      |     |     | 2.6    | 2.8  | 2.9 |     |        |     | 2.1 | 2.1 |        |     |     | 160 |
| I   | 92/ 0  |      |      |     | 92/ 0  |      |     |     | 92/46  |      |     |     | 92     |     |     |     | 100    |     |     | I   |
| II  | 92/46  |      |      |     | 92/92  |      |     |     | 92/92  |      |     |     | 92     |     |     |     | 100    |     |     | II  |
| III | 92/92  |      |      |     | 92/92  |      |     |     | 92/92  |      |     |     | 92     |     |     |     | 100    |     |     | III |
| IV  | 46/92  |      |      |     | 46/92  |      |     |     | 92/92  |      |     |     | 92     |     |     |     | 100    |     |     | IV  |
| V   | 0/92   |      |      |     | 46/92  |      |     |     | 46/92  |      |     |     | 92     |     |     |     | 100    |     |     | V   |

TAB 107167 / 107169 / 107171 / 107173



124 ft - 171 ft



62 ft



360°



44 100 lbs



85%

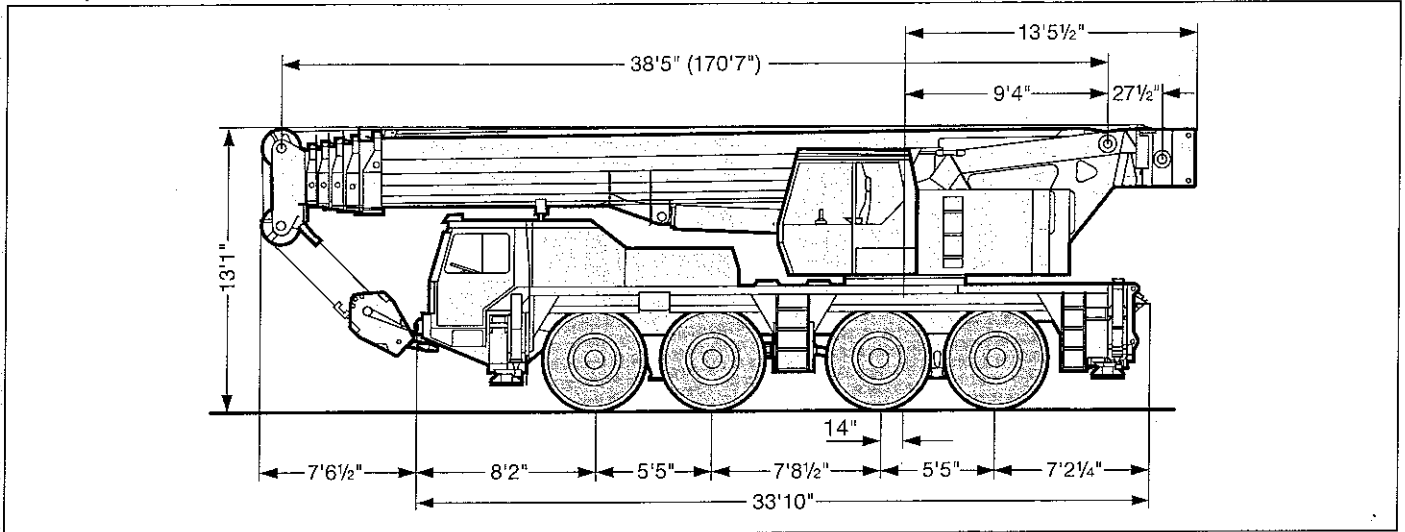
|     | 124 ft |     |     |     | 136 ft |     |     |     | 148 ft |     |     |     | 160 ft |     |     | 171 ft |     | m   |
|-----|--------|-----|-----|-----|--------|-----|-----|-----|--------|-----|-----|-----|--------|-----|-----|--------|-----|-----|
|     | 0°     | 15° | 30° | 45° | 0°     | 15° | 30° | 45° | 0°     | 15° | 30° | 45° | 0°     | 15° | 30° | 0°     | 15° |     |
| 30  | 10.2   |     |     |     |        |     |     |     |        |     |     |     |        |     |     |        |     | 30  |
| 32  | 10.1   |     |     |     |        |     |     |     |        |     |     |     |        |     |     |        |     | 32  |
| 34  | 10.1   |     |     |     | 9.5    |     |     |     |        |     |     |     |        |     |     |        |     | 34  |
| 36  | 10     |     |     |     | 9.4    |     |     |     |        |     |     |     |        |     |     |        |     | 36  |
| 38  | 10     |     |     |     | 9.4    |     |     |     |        |     |     |     |        |     |     |        |     | 38  |
| 40  | 9.9    |     |     |     | 9.3    |     |     |     | 8.2    |     |     |     | 7.3    |     |     |        |     | 40  |
| 45  | 9.8    |     |     |     | 9.2    |     |     |     | 8.1    |     |     |     | 7.2    |     |     |        |     | 45  |
| 50  | 9.6    |     |     |     | 9.1    |     |     |     | 8      |     |     |     | 7.1    |     |     | 6.1    |     | 50  |
| 55  | 9.4    | 7.9 |     |     | 9      | 7.6 |     |     | 7.9    |     |     |     | 7      |     |     | 6      |     | 55  |
| 60  | 9.2    | 7.8 |     |     | 8.8    | 7.5 |     |     | 7.8    | 6.8 |     |     | 6.8    | 5.5 |     | 6      | 4.3 | 60  |
| 65  | 9      | 7.6 |     |     | 8.7    | 7.3 |     |     | 7.7    | 6.6 |     |     | 6.8    | 5.3 |     | 5.9    | 4.2 | 65  |
| 70  | 8.8    | 7.5 | 6.3 |     | 8.5    | 7.2 | 5.6 |     | 7.6    | 6.4 |     |     | 6.6    | 5.1 |     | 5.8    | 4   | 70  |
| 75  | 8.6    | 7.4 | 6.1 | 4.7 | 8.4    | 7.1 | 5.4 |     | 7.5    | 6.2 | 4.4 |     | 6.5    | 4.9 | 3.7 | 5.7    | 3.9 | 75  |
| 80  | 8.4    | 7.2 | 5.9 | 4.5 | 8.2    | 7   | 5.2 | 3.8 | 7.3    | 6   | 4.2 | 3   | 6.4    | 4.8 | 3.6 | 5.5    | 3.8 | 80  |
| 85  | 8.2    | 7.1 | 5.7 | 4.4 | 8      | 6.9 | 5   | 3.7 | 7.2    | 5.8 | 4   | 3   | 6.3    | 4.6 | 3.5 | 5.3    | 3.7 | 85  |
| 90  | 8      | 7   | 5.5 | 4.3 | 7.8    | 6.6 | 4.8 | 3.6 | 7.1    | 5.6 | 3.8 | 2.9 | 6.2    | 4.4 | 3.3 | 5.1    | 3.5 | 90  |
| 95  | 7.8    | 6.9 | 5.3 | 4.1 | 7.6    | 6.4 | 4.6 | 3.5 | 7      | 5.4 | 3.7 | 2.8 | 6      | 4.3 | 3.2 | 4.9    | 3.4 | 95  |
| 100 | 7.7    | 6.7 | 5.1 | 4   | 7.5    | 6.1 | 4.5 | 3.3 | 6.9    | 5.2 | 3.6 | 2.7 | 5.8    | 4.2 | 3   | 4.7    | 3.3 | 100 |
| 105 | 7.5    | 6.5 | 4.9 | 3.9 | 7.3    | 5.8 | 4.3 | 3.2 | 6.8    | 5   | 3.4 | 2.7 | 5.5    | 4.1 | 2.9 | 4.5    | 3.2 | 105 |
| 110 | 7.2    | 6.2 | 4.8 | 3.8 | 7.2    | 5.6 | 4.2 | 3   | 6.6    | 4.7 | 3.3 | 2.6 | 5.3    | 3.9 | 2.8 | 4.3    | 3.1 | 110 |
| 115 | 6.6    | 6   | 4.6 | 3.6 | 6.7    | 5.4 | 4   | 2.9 | 6.3    | 4.5 | 3.2 | 2.5 | 5.1    | 3.8 | 2.7 | 4.2    | 3   | 115 |
| 120 | 5.9    | 5.7 | 4.5 | 3.5 | 6      | 5.2 | 3.9 | 2.7 | 5.9    | 4.3 | 3.1 | 2.4 | 4.9    | 3.7 | 2.6 | 4      | 2.9 | 120 |
| 125 | 5.2    | 5.5 | 4.3 | 3.4 | 5.4    | 5   | 3.7 | 2.6 | 5.3    | 4.1 | 3   | 2.4 | 4.8    | 3.6 | 2.5 | 3.9    | 2.7 | 125 |
| 130 | 4.6    | 5.2 | 4.2 | 3.2 | 4.8    | 4.8 | 3.6 | 2.5 | 4.7    | 3.9 | 2.9 | 2.3 | 4.6    | 3.5 | 2.4 | 3.7    | 2.6 | 130 |
| 135 | 4.2    | 4.7 | 4.1 | 3.1 | 4.3    | 4.6 | 3.4 | 2.4 | 4.4    | 3.8 | 2.9 | 2.2 | 4.2    | 3.3 | 2.3 | 3.6    | 2.4 | 135 |
| 140 | 4      | 4.2 | 4   | 3   | 4.1    | 4.3 | 3.3 | 2.4 | 4.2    | 3.6 | 2.8 | 2.2 | 3.8    | 3.2 | 2.3 | 3.4    | 2.3 | 140 |
| 145 | 3.8    | 3.6 | 3.8 | 2.9 | 4      | 3.8 | 3.1 | 2.3 | 4.1    | 3.5 | 2.7 | 2.1 | 3.3    | 3   | 2.2 | 3.1    | 2.1 | 145 |
| 150 | 3.7    | 3.2 | 3.4 | 2.7 | 3.8    | 3.4 | 3   | 2.2 | 3.8    | 3.3 | 2.6 | 2   | 2.9    | 2.9 | 2.1 | 2.7    | 2   | 150 |
| 155 | 3.5    | 3   | 2.9 | 2.6 | 3.7    | 3   | 2.8 | 2.2 | 3.4    | 3   | 2.6 | 1.9 | 2.5    | 2.8 | 2   | 2.3    | 1.9 | 155 |
| 160 | 3.4    | 2.9 | 2.4 | 1.9 | 3.5    | 3   | 2.6 | 2.1 | 3      | 2.9 | 2.5 | 1.9 | 2.2    | 2.6 | 1.9 |        |     | 160 |
| 165 | 3.3    | 2.8 | 2.3 |     | 3.4    | 2.9 | 2.5 | 2.1 | 2.7    | 2.8 | 2.4 |     |        | 2.3 | 1.8 |        |     | 165 |
| 170 | 3.2    | 2.7 | 2.3 |     | 3      | 2.8 | 2.5 | 2   | 2.4    | 2.7 | 2   |     |        | 1.9 | 1.7 |        |     | 170 |
| 175 |        |     |     |     | 2.6    | 2.8 | 2.4 |     | 2      | 2.4 | 1.9 |     |        |     |     |        |     | 175 |
| 180 |        |     |     |     | 2.3    | 2.5 |     |     |        | 2   | 1.8 |     |        |     |     |        |     | 180 |
| I   | 92/0   |     |     |     | 92/0   |     |     |     | 92/46  |     |     |     | 92     |     |     | 100    |     | I   |
| II  | 92/46  |     |     |     | 92/92  |     |     |     | 92/92  |     |     |     | 92     |     |     | 100    |     | II  |
| III | 92/92  |     |     |     | 92/92  |     |     |     | 92/92  |     |     |     | 92     |     |     | 100    |     | III |
| IV  | 46/92  |     |     |     | 46/92  |     |     |     | 92/92  |     |     |     | 92     |     |     | 100    |     | IV  |
| V   | 0/92   |     |     |     | 46/92  |     |     |     | 46/92  |     |     |     | 92     |     |     | 100    |     | V   |

# Axle weight.

With:  
 Tires 16.00 R 25  
 Drive 8 x 6  
 1 person

Outrigger front  
 Outrigger rear  
 Slewing platform

Winch 1 with rope  
 Luffing cylinder  
 Telescopic boom



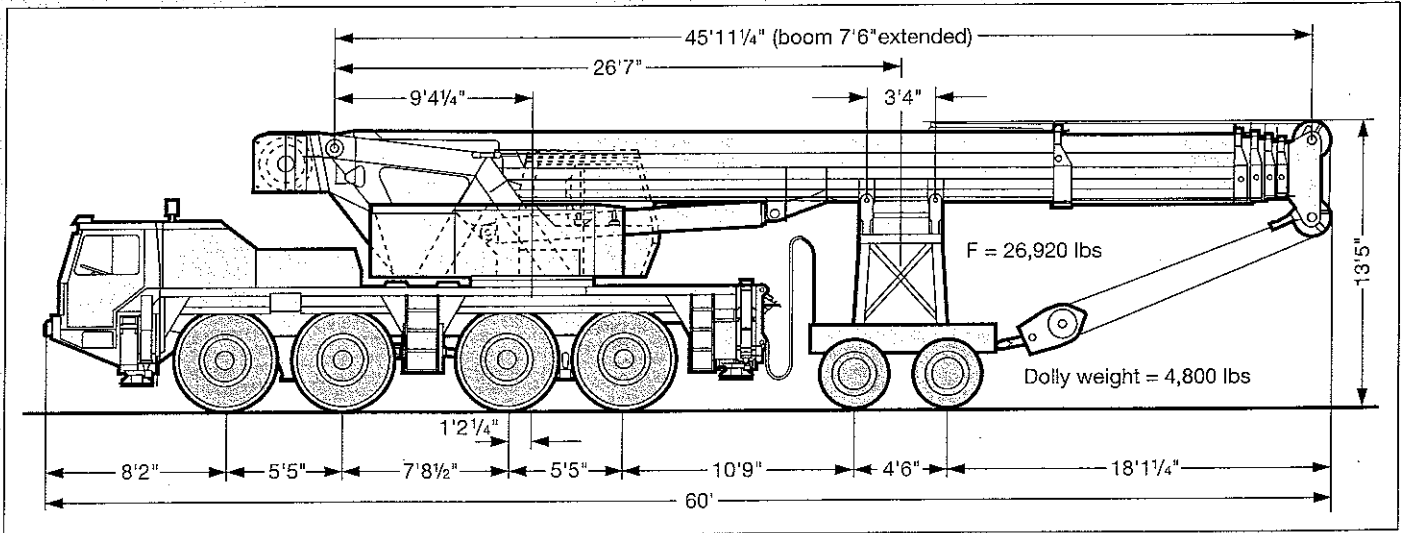
| Axle | 1      | 2      | 3      | 4      | Total weight |
|------|--------|--------|--------|--------|--------------|
| lbs  | 24,200 | 24,200 | 24,050 | 24,050 | 96,500       |

# Axle weight with dolly.

With:  
 Tires 16.00 R 25  
 Michelin XGC  
 Drive 8 x 6

Eddy-current brake  
 Winch 1 with rope

Without:  
 Spare wheel  
 Second winch or repl. CWGT  
 Folding fly jib (incl. support)  
 Counterweight  
 Hookblock

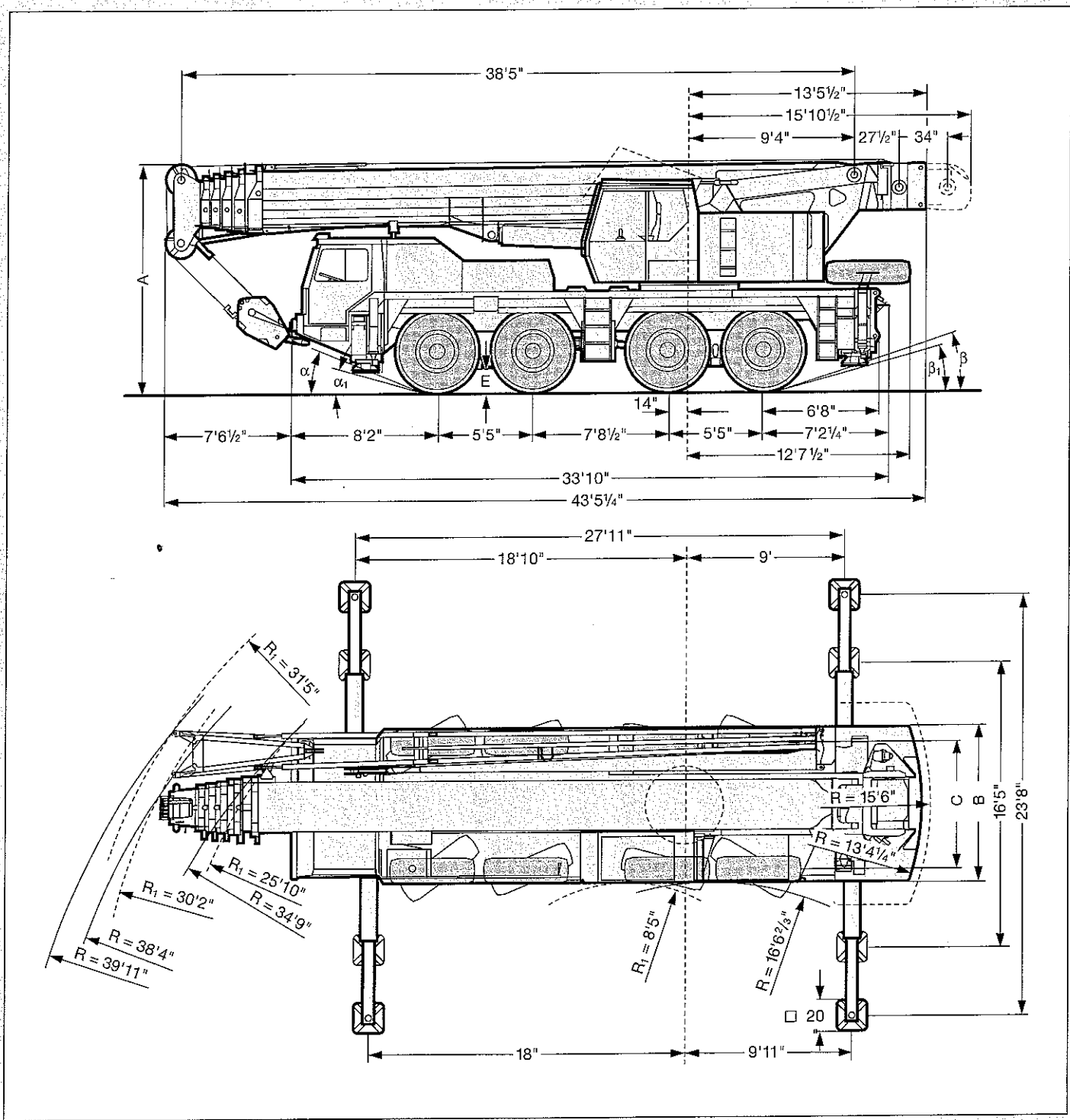



| Axle | 1      | 2      | 3      | 4      | 5*     | 6*     | Total weight |
|------|--------|--------|--------|--------|--------|--------|--------------|
| lbs  | 20,000 | 20,000 | 16,600 | 16,600 | 15,350 | 15,350 | 103,900      |

\* incl. dolly weight



# Dimensions. Encombrement.



| <br>16.00 R 25 | Dimensions / Encombrement |           |          |      |     |          |            |         |           |  |
|---|---------------------------|-----------|----------|------|-----|----------|------------|---------|-----------|--|
|   | A                         | A<br>e**  | B        | C    | E   | $\alpha$ | $\alpha_1$ | $\beta$ | $\beta_1$ |  |
|   | 13'1"                     | 12'7 1/2" | 8'9 1/2" | 7'4" | 17" | 22°      | 17°        | 18°     | 14°       |  |

\* lowered / abaissé

# Weights. Poids.



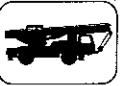
| Axle<br>Essieu | 1     | 2     | 3     | 4     | Total weight<br>Poids total |
|----------------|-------|-------|-------|-------|-----------------------------|
| lbs            | 26455 | 26455 | 26455 | 26455 | 105820                      |





with 2600 lbs counterweight and folding jib / avec contrepoids 2600 lbs et flèche pliante








| Load (kips)<br>Forces de levage (kips) | No. of sheaves<br>Poulies | No. of lines<br>Brins | Weight lbs<br>Poids lbs |
|--|---------------------------|-----------------------|-------------------------|
| 198                                    | 7                         | 14                    | 2200                    |
| 154                                    | 5                         | 10                    | 1760                    |
| 110                                    | 3                         | 7                     | 990                     |
| 48.5                                   | 1                         | 3                     | 730                     |
| 16.5                                   | -                         | 1                     | 420                     |

# Working speeds. Vitesses.



|  | 1          | 2  | 3    | 4    | 5    | 6    | R   |  |
|--|------------|----|------|------|------|------|-----|---|
| <br>mph | 6.5        | 14 | 20   | 30.5 | 40   | 45.5 | 5.5 | 42 %  |
| <br>mph | 3.8        | 8  | 11.6 | 17.7 | 23.2 | 26.4 | 3.2 | > 60 %  |
|         | 16.00 R 25 |    |      |      |      |      |     |   |



| Drive<br>Mécanismes   | infinitely variable<br>en continu  | Rope diameter / Rope length<br>Diamètre du câble / Longueur du câble | Max. single line pull<br>Effort au brin maxi. |
|---|--|--|---|
|  | 0 - 390 ft/min single line<br>ft/min au brin simple  | 27/32" / 656'  | 17370 lbs                                     |
|  | 0 - 390 ft/min single line<br>ft/min au brin simple  | 27/32" / 656'  | 17370 lbs                                     |
|  | 0 - 2.0 rpm  |  |   |
|  | approx. 100 seconds to reach 83.5° boom angle<br>env. 100 s jusqu'à 83.5°                              |  |   |
|  | approx. 300 seconds for boom extension from 38 ft - 171 ft<br>env. 300 s pour passer de 38 ft - 171 ft |  |   |

## Crane carrier.

|                           |  |
|---------------------------|--|
| <b>Frame:</b>             | Liebherr designed and manufactured, box type, torsion resistant, all-welded construction made of high-tensile structural steel.  |
| <b>Outriggers:</b>        | 4-point support, all-hydraulic horizontal and vertical operation.  |
| <b>Engine:</b>            | 6 cylinder, watercooled Liebherr Diesel, type D 9406 TI-E, 300 kW (408 HP) at 2100 rpm acc. to ECE-R 24.03 and ECE-R 49.02 (EURO II), max. torque 1250 lbs-ft at 1500 rpm. Fuel tank capacity: 106 gallons.                                |
| <b>Transmission:</b>      | Allison automatic transmission with torque converter and hydrodynamic retarder brake, 6 forward and 1 reverse speed. Transfer case with off-road range.  |
| <b>Axles:</b>             | All axles steered. Axles 1, 3 and 4 with planetary gears and differential locks.   |
| <b>Suspension:</b>        | All axles with hydropneumatic suspension and hydraulic locking facility.   |
| <b>Tyres:</b>             | 8 tyres. Tyre size: 16.00 R 25.  |
| <b>Steering:</b>          | Hydraulic power steering with dual circuit hydraulic system, mechanical/hydrostatic from lower cab. Stand-by steering pump. Steering acc. to EC directive 70/311/EEC.  |
| <b>Brakes:</b>            | Service brake: Dual circuit, servo-air brake, acting on all wheels. TELMA type eddy current brake (wear resisting retarder).<br>Hand brake: by spring action on all wheels of axles 2, 3 and 4.<br>Brakes acc. to EC directive 71/320/EEC. |
| <b>Driver's cab:</b>      | Spacious all-steel cab on resilient mountings, safety glass windows and full range of instruments.   |
| <b>Electrical system:</b> | 24 V DC, 2 batteries, lighting according to countries' regulations.  |

## Crane superstructure.

|                           |  |
|---------------------------|--|
| <b>Frame:</b>             | Liebherr-made, torsion-resistant, welded construction made of high-tensile structural steel. Connection to truck chassis by triple roller slewing ring, designed for 360° continuous rotation.   |
| <b>Crane engine:</b>      | 4 cylinder, watercooled Liebherr Diesel, type D 924 T-E, 120 kW (163 HP) at 1800 rpm acc. to ISO 3046 T 1/ISO 9249, exhaust emission acc. to EURO MOT 1 (ISO 8178) EPA/CARB, max. torque 530 lbs-ft at 1200 rpm. Fuel tank capacity: 79 gallons. |
| <b>Crane drive:</b>       | Diesel-hydraulic, with 1 duplex axial-piston pump with automatic output control, 1 duplex gear-type pump, open regulated hydraulic circuits.   |
| <b>Crane control:</b>     | By 2 control levers (joy stick type).  |
| <b>Hoist gear:</b>        | Axial piston fixed displacement motor, hoist drum with integrated planetary gear and spring loaded static brake.   |
| <b>Luffing gear:</b>      | 1 differential hydraulic ram with safety check valve.  |
| <b>Slewing gear:</b>      | Axial piston fixed displacement motor, planetary gear, spring loaded static brake.   |
| <b>Crane cab:</b>         | All-steel construction fully galvanized, safety glazing, heater, controls and instruments.   |
| <b>Safety devices:</b>    | LICCON safe load indicator, hoist limit switch, safety valves against rupture of pipe and hoses.   |
| <b>Telescopic boom:</b>   | 1 base section and 5 telescopic sections, hydraulically extendable under load. All sections extendable independently.<br>Boom length: 38 ft to 171 ft.   |
| <b>Electrical system:</b> | 24 V DC, 2 batteries.  |

## Complementary equipment.

|                        |   |
|------------------------|---|
| <b>Folding jib:</b>    | 35 ft to 62 ft long, for mounting on telescopic boom at 0°, 15°, 30° or 45°.        |
| <b>2nd hoist gear:</b> | For two-hook operation, or with folding jib in case main hoist shall remain reeved. |
| <b>Drive 8 x 8:</b>    | Axle 2 additionally driven.   |

Other items of equipment available on request.