



Liftcrane Boom Capacities

17 700 kg Crane Counterweight
Extended Position Crawlers
360 Degree Rating

Meets
ASME B30.5
Requirements



8500-1

LIFTING CAPACITIES:

1. Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or derate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, and multiple machine lifts).
2. Capacities do not exceed 75% of minimum tipping loads. Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
3. Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine capacity.
4. Do not attempt to lift where no radius on load chart is listed as crane may tip or collapse.
5. Weight of hooks, hook blocks, slings and other lifting devices beneath boom point sheaves are part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.
6. Load radius is horizontal distance from axis of rotation to center of gravity of the freely suspended load. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of radius. In all cases, operating radius shall govern capacity.
7. Least stable position is over the side.
8. Boom point elevation is vertical distance from ground level to centerline of boom point shaft.
9. Upper boom point capacity for liftcrane service with single part line is 7 700 kg. In all cases, upper boom point capacities cannot exceed those listed for Liftcrane Boom capacity reduced by 200 kg.
10. When lifting over boom point with upper boom point, rated loads for the boom must be reduced as shown below.

| Jib length | Upper Boom Point | 9,1 m | 12,2 m | 15,2 m | 18,3 m |
|-------------|------------------|----------------|--------|--------|--------|
| Deduct (kg) | 200 | Not Applicable | | | |

11. Lifting capacities listed apply only to the machine as originally manufactured and designed. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.
12. Machine travel with load (pick and carry).
 - A. Travel with crane upperworks in-line with crawlers. Grade in any direction must not exceed 1 percent (0.5 degrees).
 - B. Travel surface must be firm, level and uniformly supporting. Capacity charts are based on static conditions; therefore judgment must be used to allow for dynamic effects of traveling with load. Carry load as close to ground as possible. Stabilize load with taglines. Travel slowly and smoothly to avoid shock loading boom and rigging.
13. To lift the maximum capacity of 80 000 kg, the Upper Boom Point must be used.



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OPERATING CONDITION:

- The machine must be reeved and set-up as stated in the Operator Manual. If this manual is missing, obtain replacement.
 - Boom backstops are required for all boom lengths.
 - Gantry must be fully raised position for all operation.
 - Crawlers must be fully extended and be locked in position.
 - The crane must be leveled to within 1% on a firm supporting surface.
 - Refer to operator manual for operating guidelines.

- Jib installation is prohibited.

| Maximum Boom Lengths Lifted Unassisted |
|---|
| Over End of Crawlers |
| 57,9 m (a) 54,9 m |
| Load block, hook and weight ball on ground at start. (a) Upper boom point cannot be attached on 57,9 m boom. |

- See Operator Manual Section 6 for Wire Rope Specifications.
- Machine equipped with 6 280 mm crawlers, 900 mm treads, 12 parts of boom hoist reeving and 17 700 kg crane counterweight.

Hoist Reeving for Main Boom Loads

| No. of Parts of Line | 1 | 2 | 3 | 4 | 5 |
|----------------------|-------|--------|--------|--------|--------|
| Maximum Loads (kg) | 7 700 | 15 400 | 23 100 | 30 800 | 38 500 |

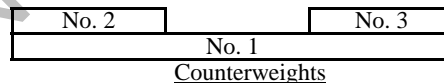
| No. of Parts of Line | 6 | 7 | 8 | 10 |
|----------------------|--------|--------|--------|--------|
| Maximum Loads (kg) | 46 200 | 53 900 | 61 600 | 80 000 |

Hoist Reeving for Upper Boom Point

| | |
|----------------------|-------|
| No. of Parts of Line | 1 |
| Maximum Loads (kg) | 7 700 |

Assembling the Counterweight

17 700 kg Crane counterweight (No. 1 - No. 3)
Without carbody weight



Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.



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| Load Radius (m) | Boom Angle (deg) | Boom Point Elev. (m) | 360° Rated Load (kg) |
|--------------------|------------------|----------------------|----------------------|
| 12,2 m Boom | | | |
| 3,0 | 81,70 | 13,79 | 77 100 * |
| 3,5 | 79,59 | 13,71 | 75 000 * |
| 4,0 | 77,18 | 13,59 | 67 100 |
| 4,5 | 74,75 | 13,46 | 55 500 |
| 5,0 | 72,29 | 13,30 | 46 100 |
| 5,5 | 69,79 | 13,12 | 39 000 |
| 6,0 | 67,25 | 12,92 | 34 000 |
| 7,0 | 62,00 | 12,42 | 27 200 |
| 8,0 | 56,48 | 11,80 | 22 200 |
| 9,0 | 50,56 | 11,04 | 18 800 |
| 10,0 | 44,06 | 10,09 | 16 300 |
| 12,0 | 27,57 | 7,22 | 12 800 |
| 12,1 | 25,50 | 6,82 | 12 500 |
| 15,2 m Boom | | | |
| 3,6 | 81,10 | 16,78 | 70 800 |
| 4,0 | 79,78 | 16,71 | 62 500 |
| 4,5 | 77,86 | 16,61 | 53 400 |
| 5,0 | 75,93 | 16,48 | 45 800 |
| 5,5 | 73,97 | 16,34 | 39 000 |
| 6,0 | 72,00 | 16,18 | 34 000 |
| 7,0 | 67,98 | 15,80 | 27 100 |
| 8,0 | 63,83 | 15,34 | 22 100 |
| 9,0 | 59,53 | 14,78 | 18 700 |
| 10,0 | 55,02 | 14,12 | 16 200 |
| 12,0 | 45,10 | 12,40 | 12 700 |
| 14,0 | 32,93 | 9,87 | 10 300 |
| 15,2 | 22,70 | 7,44 | 9 200 |
| 18,3 m Boom | | | |
| 4,0 | 81,60 | 19,81 | 58 200 |
| 4,5 | 79,91 | 19,72 | 50 300 |
| 5,0 | 78,31 | 19,62 | 44 200 |
| 5,5 | 76,71 | 19,50 | 38 200 |
| 6,0 | 75,09 | 19,37 | 33 500 |
| 7,0 | 71,81 | 19,06 | 27 000 |
| 8,0 | 68,46 | 18,69 | 22 100 |
| 9,0 | 65,04 | 18,24 | 18 700 |
| 10,0 | 61,51 | 17,73 | 16 200 |
| 12,0 | 54,04 | 16,44 | 12 700 |
| 14,0 | 45,77 | 14,71 | 10 300 |
| 16,0 | 36,07 | 12,36 | 8 700 |
| 18,0 | 23,10 | 8,74 | 7 400 |
| 18,2 | 20,60 | 8,02 | 7 200 |

| Load Radius (m) | Boom Angle (deg) | Boom Point Elev. (m) | 360° Rated Load (kg) |
|--------------------|------------------|----------------------|----------------------|
| 21,3 m Boom | | | |
| 4,5 | 81,37 | 22,81 | 47 200 |
| 5,0 | 80,01 | 22,73 | 42 000 |
| 5,5 | 78,64 | 22,63 | 37 400 |
| 6,0 | 77,26 | 22,52 | 33 000 |
| 7,0 | 74,48 | 22,25 | 26 800 |
| 8,0 | 71,67 | 21,94 | 22 100 |
| 9,0 | 68,81 | 21,57 | 18 700 |
| 10,0 | 65,88 | 21,14 | 16 200 |
| 12,0 | 59,82 | 20,09 | 12 700 |
| 14,0 | 53,34 | 18,75 | 10 300 |
| 16,0 | 46,24 | 17,02 | 8 600 |
| 18,0 | 38,16 | 14,78 | 7 300 |
| 19,8 | 29,30 | 12,01 | 6 400 |
| 24,4 m Boom | | | |
| 5,0 | 81,27 | 25,82 | 39 800 |
| 5,5 | 80,07 | 25,73 | 35 600 |
| 6,0 | 78,88 | 25,64 | 32 400 |
| 7,0 | 76,47 | 25,41 | 26 700 |
| 8,0 | 74,03 | 25,14 | 22 100 |
| 9,0 | 71,57 | 24,82 | 18 700 |
| 10,0 | 69,06 | 24,45 | 16 200 |
| 12,0 | 63,92 | 23,56 | 12 600 |
| 14,0 | 58,53 | 22,44 | 10 200 |
| 16,0 | 52,81 | 21,05 | 8 500 |
| 18,0 | 46,60 | 19,33 | 7 200 |
| 20,0 | 39,66 | 17,16 | 6 200 |
| 22,0 | 32,49 | 14,68 | 5 500 |
| 22,8 | 27,30 | 12,76 | 5 200 |
| 27,4 m Boom | | | |
| 5,5 | 81,19 | 28,83 | 34 000 |
| 6,0 | 80,13 | 28,74 | 31 100 |
| 7,0 | 78,00 | 28,54 | 26 300 |
| 8,0 | 75,85 | 28,30 | 22 000 |
| 9,0 | 73,68 | 28,02 | 18 600 |
| 10,0 | 71,49 | 27,70 | 16 100 |
| 12,0 | 67,01 | 26,92 | 12 500 |
| 14,0 | 62,37 | 25,96 | 10 200 |
| 16,0 | 57,52 | 24,78 | 8 500 |
| 18,0 | 52,39 | 23,36 | 7 200 |
| 20,0 | 46,87 | 21,63 | 6 100 |
| 22,0 | 41,51 | 19,78 | 5 400 |
| 24,0 | 34,67 | 17,19 | 4 700 |
| 25,9 | 25,70 | 13,48 | 4 300 |

| Load Radius (m) | Boom Angle (deg) | Boom Point Elev. (m) | 360° Rated Load (kg) |
|--------------------|------------------|----------------------|----------------------|
| 30,5 m Boom | | | |
| 5,7 | 81,50 | 31,87 | 30 900 |
| 6,0 | 81,13 | 31,83 | 29 800 |
| 7,0 | 79,22 | 31,65 | 25 400 |
| 8,0 | 77,29 | 31,44 | 21 800 |
| 9,0 | 75,35 | 31,19 | 18 500 |
| 10,0 | 73,40 | 30,90 | 16 000 |
| 12,0 | 69,42 | 30,22 | 12 400 |
| 14,0 | 65,34 | 29,37 | 10 100 |
| 16,0 | 61,11 | 28,34 | 8 400 |
| 18,0 | 56,70 | 27,12 | 7 100 |
| 20,0 | 52,06 | 25,66 | 6 100 |
| 22,0 | 47,67 | 24,15 | 5 300 |
| 24,0 | 42,31 | 22,12 | 4 700 |
| 26,0 | 36,33 | 19,64 | 4 100 |
| 28,0 | 29,31 | 16,50 | 3 700 |
| 28,9 | 24,30 | 14,63 | 3 500 |
| 33,5 m Boom | | | |
| 6,0 | 81,80 | 34,91 | 28 200 |
| 7,0 | 80,21 | 34,76 | 24 600 |
| 8,0 | 78,47 | 34,56 | 21 200 |
| 9,0 | 76,71 | 34,33 | 18 400 |
| 10,0 | 74,95 | 34,08 | 16 000 |
| 12,0 | 71,37 | 33,46 | 12 400 |
| 14,0 | 67,71 | 32,70 | 10 100 |
| 16,0 | 63,96 | 31,79 | 8 400 |
| 18,0 | 60,07 | 30,71 | 7 100 |
| 20,0 | 56,03 | 29,44 | 6 000 |
| 22,0 | 52,27 | 28,15 | 5 300 |
| 24,0 | 47,79 | 26,45 | 4 600 |
| 26,0 | 42,96 | 24,45 | 4 100 |
| 28,0 | 37,63 | 22,06 | 3 700 |
| 30,0 | 31,56 | 19,13 | 3 300 |
| 32,0 | 23,20 | 15,29 | 3 000 |



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| Load Radius (m) | Boom Angle (deg) | Boom Point Elev. (m) | 360° Rated Load (kg) |
|--------------------|------------------|----------------------|----------------------|
| 36,6 m Boom | | | |
| 6,7 | 81,50 | 37,93 | 24 600 |
| 7,0 | 81,03 | 37,85 | 23 600 |
| 8,0 | 79,44 | 37,67 | 20 500 |
| 9,0 | 77,84 | 37,46 | 18 100 |
| 10,0 | 76,23 | 37,23 | 15 900 |
| 12,0 | 72,98 | 36,66 | 12 300 |
| 14,0 | 69,66 | 35,98 | 10 000 |
| 16,0 | 66,27 | 35,15 | 8 300 |
| 18,0 | 62,79 | 34,19 | 7 000 |
| 20,0 | 59,20 | 33,07 | 5 900 |
| 22,0 | 55,89 | 31,92 | 5 200 |
| 24,0 | 52,00 | 30,45 | 4 500 |
| 26,0 | 47,89 | 28,75 | 4 000 |
| 28,0 | 43,49 | 26,78 | 3 600 |
| 30,0 | 38,69 | 24,46 | 3 100 |
| 32,0 | 33,32 | 21,67 | 2 800 |
| 34,0 | 27,02 | 18,19 | 2 500 |
| 35,0 | 22,20 | 15,91 | 2 400 |
| 39,6 m Boom | | | |
| 7,3 | 81,30 | 40,88 | 21 700 |
| 8,0 | 80,47 | 40,77 | 19 900 |
| 9,0 | 78,99 | 40,58 | 17 600 |
| 10,0 | 77,50 | 40,36 | 15 700 |
| 12,0 | 74,50 | 39,85 | 12 300 |
| 14,0 | 71,44 | 39,22 | 9 900 |
| 16,0 | 68,33 | 38,47 | 8 200 |
| 18,0 | 65,16 | 37,59 | 6 800 |
| 20,0 | 61,89 | 36,58 | 5 900 |
| 22,0 | 58,52 | 35,55 | 5 100 |
| 24,0 | 55,02 | 34,25 | 4 500 |
| 26,0 | 51,37 | 32,75 | 3 900 |
| 28,0 | 47,51 | 31,05 | 3 400 |
| 30,0 | 43,40 | 29,10 | 3 000 |
| 32,0 | 38,94 | 26,83 | 2 700 |
| 34,0 | 33,99 | 24,17 | 2 400 |
| 36,0 | 28,29 | 20,93 | 2 200 |
| 38,0 | 21,20 | 16,51 | 2 000 |

| Load Radius (m) | Boom Angle (deg) | Boom Point Elev. (m) | 360° Rated Load (kg) |
|--------------------|------------------|----------------------|----------------------|
| 42,7 m Boom | | | |
| 7,3 | 81,90 | 43,97 | 20 900 |
| 8,0 | 81,16 | 43,86 | 19 200 |
| 9,0 | 79,79 | 43,68 | 17 000 |
| 10,0 | 78,42 | 43,48 | 15 200 |
| 12,0 | 75,64 | 43,01 | 12 200 |
| 14,0 | 72,82 | 42,43 | 9 800 |
| 16,0 | 69,97 | 41,74 | 8 100 |
| 18,0 | 67,05 | 40,93 | 6 800 |
| 20,0 | 64,08 | 40,01 | 5 700 |
| 22,0 | 61,02 | 39,08 | 5 000 |
| 24,0 | 57,87 | 37,90 | 4 300 |
| 26,0 | 54,60 | 36,57 | 3 700 |
| 28,0 | 51,20 | 35,06 | 3 300 |
| 30,0 | 47,62 | 33,35 | 2 900 |
| 32,0 | 43,82 | 31,41 | 2 600 |
| 34,0 | 39,73 | 29,20 | 2 300 |
| 36,0 | 35,25 | 26,62 | 2 100 |
| 38,0 | 30,20 | 23,56 | 1 800 |
| 40,0 | 24,21 | 19,78 | 1 600 |
| 45,7 m Boom | | | |
| 7,9 | 81,70 | 46,96 | 18 700 |
| 8,0 | 80,48 | 46,95 | 18 500 |
| 9,0 | 79,20 | 46,78 | 16 500 |
| 10,0 | 76,62 | 46,60 | 14 800 |
| 12,0 | 74,01 | 46,15 | 12 000 |
| 14,0 | 71,36 | 45,61 | 9 700 |
| 16,0 | 68,68 | 44,97 | 8 000 |
| 18,0 | 65,94 | 44,23 | 6 700 |
| 20,0 | 63,13 | 43,38 | 5 600 |
| 22,0 | 60,26 | 42,53 | 4 900 |
| 24,0 | 57,30 | 41,45 | 4 200 |
| 26,0 | 54,24 | 40,24 | 3 700 |
| 28,0 | 51,05 | 38,88 | 3 300 |
| 30,0 | 47,71 | 37,36 | 2 900 |
| 32,0 | 44,18 | 35,65 | 2 600 |
| 34,0 | 40,41 | 33,73 | 2 200 |
| 36,0 | 36,32 | 31,55 | 1 900 |
| 38,0 | 31,77 | 29,05 | 1 700 |
| 40,0 | 26,54 | 26,13 | 1 500 |

| Load Radius (m) | Boom Angle (deg) | Boom Point Elev. (m) | 360° Rated Load (kg) |
|--------------------|------------------|----------------------|----------------------|
| 48,8 m Boom | | | |
| 8,5 | 81,50 | 49,95 | 16 900 |
| 9,0 | 81,09 | 49,87 | 16 000 |
| 10,0 | 79,89 | 49,70 | 14 300 |
| 12,0 | 77,48 | 49,28 | 11 700 |
| 14,0 | 75,04 | 48,78 | 9 600 |
| 16,0 | 72,58 | 48,19 | 7 900 |
| 18,0 | 70,08 | 47,50 | 6 600 |
| 20,0 | 67,54 | 46,71 | 5 500 |
| 22,0 | 64,95 | 45,92 | 4 800 |
| 24,0 | 62,30 | 44,93 | 4 100 |
| 26,0 | 59,59 | 43,82 | 3 600 |
| 28,0 | 56,80 | 42,58 | 3 100 |
| 30,0 | 53,92 | 41,20 | 2 800 |
| 32,0 | 50,92 | 39,66 | 2 400 |
| 34,0 | 47,79 | 37,95 | 2 100 |
| 36,0 | 44,50 | 36,04 | 1 800 |
| 38,0 | 41,00 | 33,90 | 1 500 |
| 51,8 m Boom | | | |
| 8,5 | 82,00 | 53,03 | 16 100 |
| 9,0 | 81,62 | 52,96 | 15 400 |
| 10,0 | 80,49 | 52,80 | 13 900 |
| 12,0 | 78,23 | 52,41 | 11 400 |
| 14,0 | 75,95 | 51,93 | 9 500 |
| 16,0 | 73,64 | 51,38 | 7 800 |
| 18,0 | 71,30 | 50,73 | 6 500 |
| 20,0 | 68,93 | 50,00 | 5 500 |
| 22,0 | 66,53 | 49,26 | 4 700 |
| 24,0 | 64,07 | 48,34 | 4 100 |
| 26,0 | 61,57 | 47,31 | 3 500 |
| 28,0 | 59,00 | 46,17 | 3 100 |
| 30,0 | 56,36 | 44,91 | 2 600 |
| 32,0 | 53,64 | 43,51 | 2 300 |
| 34,0 | 50,81 | 41,97 | 2 000 |
| 36,0 | 47,87 | 40,25 | 1 700 |
| 38,0 | 44,78 | 38,35 | 1 500 |



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 360 Degree Rating

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| Load Radius (m) | Boom Angle (deg) | Boom Point Elev. (m) | 360° Rated Load (kg) |
|--------------------|------------------|----------------------|----------------------|
| 54,9 m Boom | | | |
| 9,1 | 81,80 | 56,02 | 14 400 |
| 10,0 | 82,17 | 55,89 | 13 300 |
| 12,0 | 81,11 | 55,52 | 11 000 |
| 14,0 | 78,99 | 55,08 | 9 200 |
| 16,0 | 76,85 | 54,55 | 7 800 |
| 18,0 | 74,69 | 53,95 | 6 500 |
| 20,0 | 72,51 | 53,26 | 5 500 |
| 22,0 | 70,31 | 52,57 | 4 700 |
| 24,0 | 68,07 | 51,71 | 4 100 |
| 26,0 | 65,80 | 50,75 | 3 500 |
| 28,0 | 61,12 | 49,69 | 3 100 |
| 30,0 | 58,70 | 48,52 | 2 600 |
| 32,0 | 56,21 | 47,24 | 2 300 |
| 34,0 | 53,66 | 45,82 | 2 000 |
| 36,0 | 51,01 | 44,27 | 1 700 |
| 38,0 | 48,26 | 42,56 | 1 400 |

| Load Radius (m) | Boom Angle (deg) | Boom Point Elev. (m) | 360° Rated Load (kg) |
|--------------------|------------------|----------------------|----------------------|
| 57,9 m Boom | | | |
| 10,0 | 81,60 | 58,97 | 12 000 |
| 12,0 | 79,58 | 58,63 | 10 400 |
| 14,0 | 77,56 | 58,21 | 9 000 |
| 16,0 | 75,52 | 57,71 | 7 600 |
| 18,0 | 73,46 | 57,14 | 6 500 |
| 20,0 | 71,39 | 56,49 | 5 500 |
| 22,0 | 69,28 | 55,85 | 4 700 |
| 24,0 | 67,15 | 55,04 | 4 000 |
| 26,0 | 64,98 | 54,14 | 3 400 |
| 28,0 | 62,77 | 53,15 | 3 000 |
| 30,0 | 60,52 | 52,06 | 2 600 |
| 32,0 | 58,21 | 50,87 | 2 300 |
| 34,0 | 55,85 | 49,56 | 1 900 |
| 36,0 | 53,42 | 48,13 | 1 600 |
| 38,0 | 50,90 | 46,57 | 1 400 |

REFERENCE ONLY!