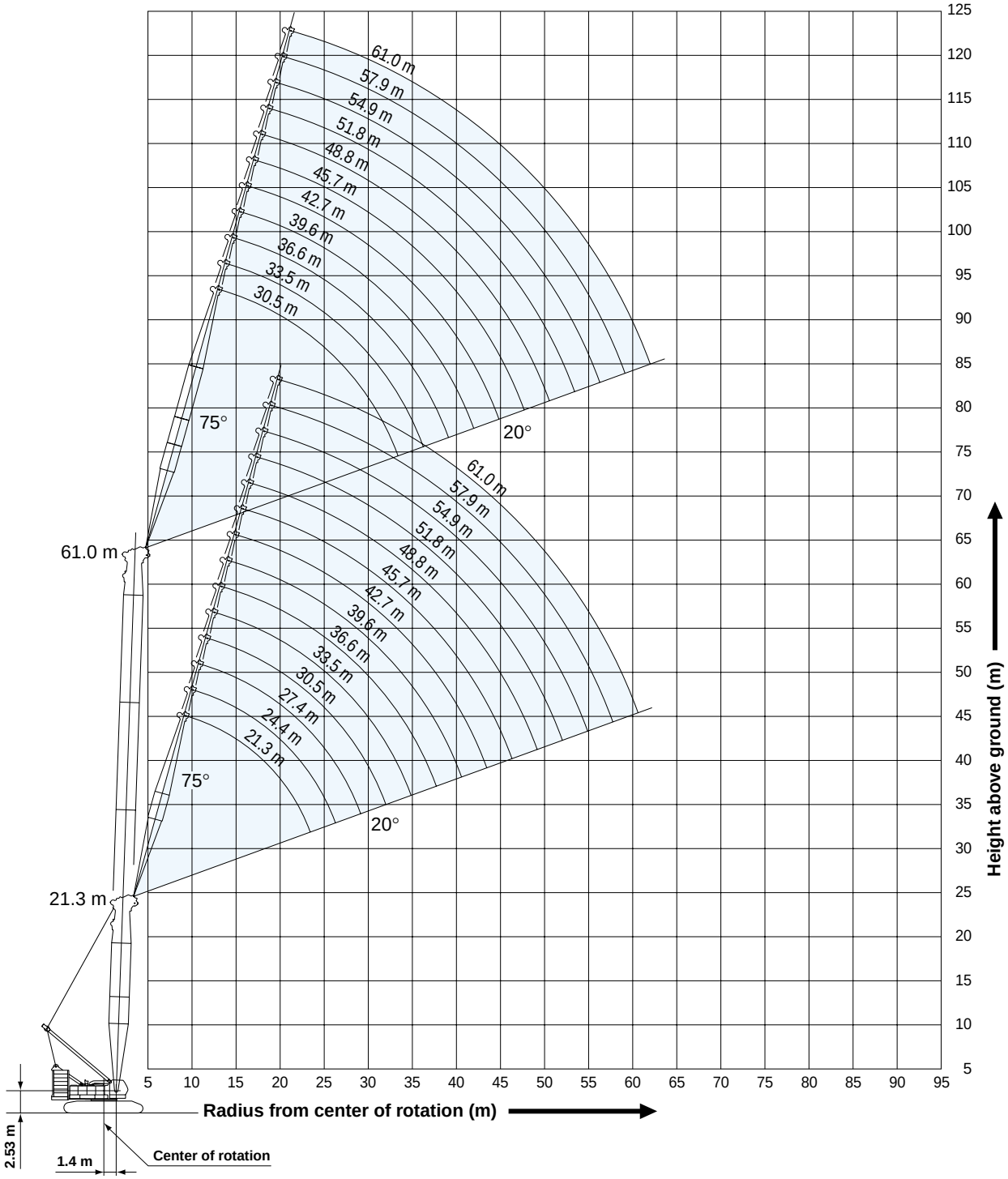
# STERLING CRANE

## LIFTING CHARTS - Crawler Cranes

## KOBELCO MODEL CKE2500-II - 275 TON CAPACITY

### Luffing Jib Working Ranges

**Boom Angle: 88°**

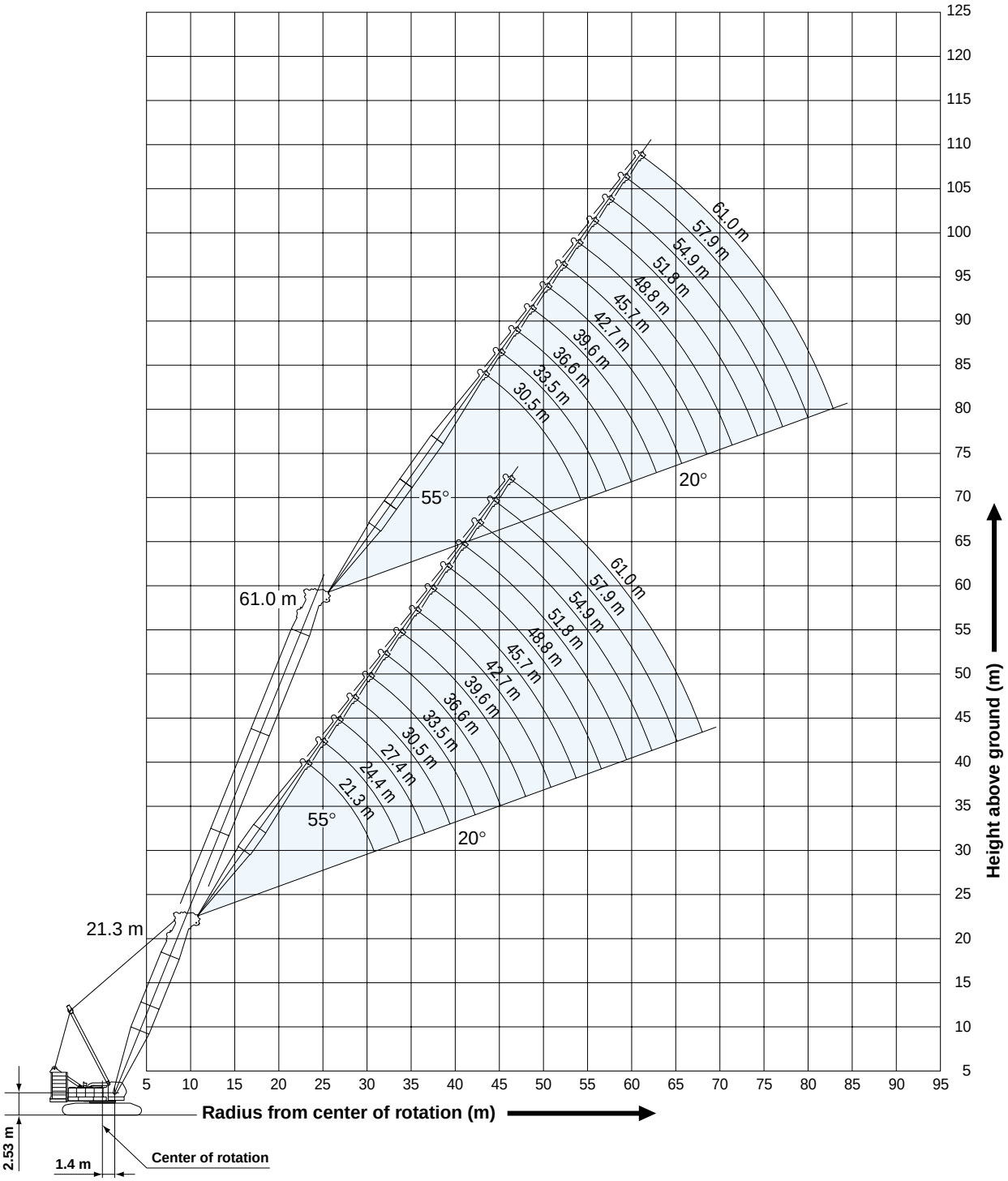



**NOTES:**

1. Ratings according to EN13000.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Weight of hook block(s), slings and other load handling accessories is included in rated load. Their total weight must be subtracted from rated load to obtain weight that can be lifted.
5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface, up to 1% gradient.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom/jib inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Luffing boom hoist reeving is 16 part line.
10. Luffing jib hoist reeving is 10 part line.

# Luffing Jib Working Ranges

## Boom Angle: 68°




11. Gantry must be in raised position for all conditions.
12. Boom and jib backstops are required for all boom and jib combinations.
13. Ratings shown in ☐ are determined by the strength of the boom or other structural component.
14. The boom should be erected over the front of crawlers, not laterally.
15. When erecting or lowering the boom length of 54.9 m or over, the pillow plate for erection must be placed at the end of crawlers.
16. Instruction in the “Operator’s Manual” must be strictly observed when operating the machine.
17. All luffing jib ratings and luffing boom ratings with luffing jib shown are calculated in the condition equipped with the auxiliary sheave frame.
18. Luffing jib ratings: Deduct weight of jib hook block, slings, and all other load handling accessories from luffing jib ratings shown.
19. Luffing boom ratings with luffing jib: Deduct weight of main hook block, slings and all other load handling accessories from luffing boom ratings with luffing jib shown.

# STERLING CRANE

## Luffing Jib Lifting Capacities (Without Main Hook)

Unit: metric ton

**Counterweight: 90.0 t, Carbody weight: 24.0 t**

### 21.3 m Boom Length

| Boom length (m) | 21.3 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | | | | 27.4 | | | | 33.5 | | | | 39.6 | | | | Jib length (m) |
| Boom angle / Working Radius (m) | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | Boom angle / Working Radius (m) |
| 9.8 | 80.0 | | | | | | | | | | | | | | | | 9.8 |
| 10.0 | 79.3 | | | | | | | | | | | | | | | | 10.0 |
| 12.0 | 72.2 | | | | 70.0 | | | | | | | | | | | | 12.0 |
| 14.0 | 65.1 | 65.7 | | | 64.7 | | | | 54.0 | | | | | | | | 14.0 |
| 16.0 | 58.0 | 58.7 | | | 58.6 | 58.6 | | | 51.9 | | | | 39.5 | | | | 16.0 |
| 18.0 | 50.9 | 54.2 | | | 52.9 | 53.5 | | | 49.2 | 52.5 | | | 38.7 | | | | 18.0 |
| 20.0 | 43.8 | 47.6 | | | 47.2 | 47.5 | | | 46.5 | 47.3 | | | 37.6 | 38.7 | | | 20.0 |
| 22.0 | 36.7 | 42.1 | | | 41.5 | 42.0 | | | 42.0 | 41.9 | | | 36.3 | 38.1 | | | 22.0 |
| 24.0 | 27.9 | 37.8 | 35.6 | | 36.9 | 37.7 | | | 37.4 | 37.5 | | | 34.8 | 36.5 | | | 24.0 |
| 26.0 | | | 32.2 | | 31.7 | 34.1 | | | 33.6 | 34.0 | | | 33.1 | 33.8 | | | 26.0 |
| 28.0 | | | 29.4 | 28.8 | 26.6 | 31.1 | 29.1 | | 30.4 | 31.0 | | | 31.0 | 30.8 | | | 28.0 |
| 30.0 | | | 27.0 | 26.5 | | 27.8 | 26.7 | 32.0m /24.2 | 27.3 | 28.4 | 32.0 m/24.4 | 36.0 m/20.7 | 28.2 | 28.3 | | | 30.0 |
| 34.0 | | | | 32.0 m/24.4 | | | 22.8 | 22.4 | 20.4 | 24.3 | 22.6 | 19.3 | 23.8 | 24.2 | 36.0 m/21.0 | | 34.0 |
| 38.0 | | | | | | | 36.0 m/21.3 | 19.5 | | 36.0 m/21.5 | 19.7 | 17.0 | 18.9 | 21.1 | 19.6 | 40.0 m/17.9 | 38.0 |
| 42.0 | | | | | | | | | | | 17.4 | 44.0 m/16.0 | 40.0 m/16.4 | 17.2 | 17.2 | 16.8 | 42.0 |
| 46.0 | | | | | | | | | | | | | | | 15.4 | 15.0 | 46.0 |
| 50.0 | | | | | | | | | | | | | | | 48.0 m/14.5 | 13.4 | 50.0 |
| Reeves | 6 | | | | 6 | | | | 4 | | | | 3 | | | | Reeves |

| Boom length (m) | 21.3 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 45.7 | | | | 51.8 | | | | 57.9 | | | | 61.0 | | | | Jib length (m) |
| Boom angle / Working Radius (m) | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | Boom angle / Working Radius (m) |
| 16.0 | 29.4 | | | | | | | | | | | | | | | | 16.0 |
| 18.0 | 28.7 | | | | 26.6 | | | | | | | | | | | | 18.0 |
| 20.0 | 28.1 | | | | 26.0 | | | | 20.9 | | | | 18.4 | | | | 20.0 |
| 22.0 | 27.5 | 28.1 | | | 24.9 | | | | 20.4 | | | | 18.3 | | | | 22.0 |
| 24.0 | 27.0 | 27.5 | | | 23.8 | 24.3 | | | 19.5 | | | | 17.6 | | | | 24.0 |
| 26.0 | 26.5 | 27.0 | | | 22.7 | 23.2 | | | 18.5 | 19.2 | | | 16.7 | | | | 26.0 |
| 28.0 | 25.9 | 26.6 | | | 21.6 | 22.1 | | | 17.5 | 18.2 | | | 15.8 | 16.4 | | | 28.0 |
| 30.0 | 24.7 | 25.9 | | | 20.4 | 21.1 | | | 16.6 | 17.2 | | | 15.0 | 15.6 | | | 30.0 |
| 34.0 | 22.4 | 23.5 | | | 18.2 | 18.9 | | | 15.0 | 15.5 | | | 13.6 | 14.0 | | | 34.0 |
| 38.0 | 20.3 | 20.9 | 19.4 | | 16.3 | 17.0 | | | 13.5 | 14.0 | | | 12.3 | 12.7 | | | 38.0 |
| 42.0 | 16.9 | 18.4 | 17.0 | | 14.3 | 15.0 | 16.8 | | 12.3 | 12.7 | | | 11.2 | 11.6 | | | 42.0 |
| 46.0 | 13.3 | 15.8 | 15.1 | 44.0 m/15.6 | 12.5 | 13.2 | 14.9 | 48.0 m/13.7 | 11.2 | 11.6 | 12.8 | | 10.3 | 10.6 | 48.0 m/11.2 | | 46.0 |
| 50.0 | | 48.0 m/14.0 | 13.6 | 14.8 | 10.7 | 11.5 | 13.3 | 12.9 | 10.2 | 10.6 | 11.7 | 52.0 m/11.6 | 9.4 | 9.7 | 10.7 | | 50.0 |
| 54.0 | | | 12.3 | 13.2 | 52.0 m/9.7 | 9.7 | 11.9 | 11.7 | 9.3 | 9.7 | 10.8 | 11.1 | 8.6 | 9.0 | 9.9 | 10.1 | 54.0 |
| 58.0 | | | | 12.0 | | | 10.3 | 10.6 | 8.2 | 8.9 | 9.9 | 10.2 | 7.9 | 8.2 | 9.1 | 9.4 | 58.0 |
| 62.0 | | | | 56.0 m/11.4 | | | 60.0 m/9.5 | 9.3 | | 60.0 m/8.2 | 9.1 | 9.4 | 7.0 | 7.5 | 8.4 | 8.7 | 62.0 |
| 66.0 | | | | | | | | | | | 8.0 | 8.6 | | 64.0 m/7.0 | 7.8 | 8.0 | 66.0 |
| 70.0 | | | | | | | | | | | | 68.0 m/8.0 | | | 68.0 m/7.5 | 7.4 | 70.0 |
| Reeves | 3 | | | | 2 | | | | 2 | | | | 2 | | | | Reeves |

### 27.4 m Boom Length

| Boom length (m) | 27.4 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | | | | 27.4 | | | | 33.5 | | | | 39.6 | | | | Jib length (m) |
| Boom angle / Working Radius (m) | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | Boom angle / Working Radius (m) |
| 10.0 | 73.4 | | | | | | | | | | | | | | | | 10.0 |
| 12.0 | 67.6 | | | | 67.5 | | | | | | | | | | | | 12.0 |
| 14.0 | 61.7 | 65.4 | | | 62.4 | | | | 54.0 | | | | | | | | 14.0 |
| 16.0 | 55.9 | 58.4 | | | 57.3 | 58.3 | | | 52.1 | | | | 39.5 | | | | 16.0 |
| 18.0 | 50.1 | 53.9 | | | 52.2 | 53.2 | | | 49.4 | 52.2 | | | 38.6 | | | | 18.0 |
| 20.0 | 44.2 | 47.3 | | | 47.1 | 47.2 | | | 46.8 | 47.0 | | | 37.5 | | | | 20.0 |
| 22.0 | 38.4 | 41.9 | | | 42.0 | 41.7 | | | 42.6 | 41.6 | | | 36.3 | 38.3 | | | 22.0 |
| 24.0 | 29.7 | 37.5 | | | 37.2 | 37.4 | | | 37.8 | 37.3 | | | 34.8 | 37.0 | | | 24.0 |
| 26.0 | | 33.5 | 31.4 | | 32.8 | 33.8 | | | 33.9 | 33.7 | | | 33.2 | 33.6 | | | 26.0 |
| 28.0 | | | 28.6 | | 27.7 | 30.8 | | | 30.6 | 30.7 | | | 31.3 | 30.6 | | | 28.0 |
| 30.0 | | | 26.2 | 25.5 | 22.3 | 28.3 | 25.9 | | 27.8 | 28.2 | | | 28.5 | 28.1 | | | 30.0 |
| 34.0 | | | 32.0 m/24.2 | 21.8 | | 32.0 m/25.1 | 22.1 | 21.5 | 21.2 | 24.1 | 21.9 | | 23.9 | 24.0 | | | 34.0 |
| 38.0 | | | | | | | 19.2 | 18.7 | 36.0 m/17.6 | 19.7 | 19.0 | 18.5 | 19.5 | 20.9 | 18.9 | | 38.0 |
| 42.0 | | | | | | | | 40.0 m/17.6 | | | 16.8 | 16.3 | 40.0 m/17.1 | 18.4 | 16.7 | 16.1 | 42.0 |
| 46.0 | | | | | | | | | | | 44.0 m/15.8 | 14.5 | | 44.0 m/15.9 | 14.8 | 14.3 | 46.0 |
| 50.0 | | | | | | | | | | | | | | | 13.3 | 12.8 | 50.0 |
| 54.0 | | | | | | | | | | | | | | | | 52.0 m/12.2 | 54.0 |
| Reeves | 6 | | | | 5 | | | | 4 | | | | 3 | | | | Reeves |

Note: Ratings according to EN13000.
Ratings shown in [ ] are determined by the strength of the boom or other structural components.
Refer to notes P25 and P26.

# STERLING CRANE

## Luffing Jib Lifting Capacities (Without Main Hook)

Unit: metric ton

**Counterweight: 90.0 t, Carbody weight: 24.0 t**

**27.4 m Boom Length**

| Boom length (m) | 27.4 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 45.7 | | | | 51.8 | | | | 57.9 | | | | 61.0 | | | | Jib length (m) |
| Boom angle / Working Radius (m) | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | Boom angle / Working Radius (m) |
| 18.0 | 28.7 | | | | 25.7 | | | | | | | | | | | | 18.0 |
| 20.0 | 28.1 | | | | 25.4 | | | | 20.4 | | | | | | | | 20.0 |
| 22.0 | 27.5 | | | | 24.5 | | | | 20.1 | | | | 18.1 | | | | 22.0 |
| 24.0 | 27.0 | 27.7 | | | 23.5 | | | | 19.3 | | | | 17.4 | | | | 24.0 |
| 26.0 | 26.5 | 27.2 | | | 22.4 | 22.8 | | | 18.4 | | | | 16.6 | | | | 26.0 |
| 28.0 | 25.9 | 26.7 | | | 21.3 | 21.7 | | | 17.4 | 18.1 | | | 15.7 | 16.3 | | | 28.0 |
| 30.0 | 24.7 | 26.2 | | | 20.2 | 20.7 | | | 16.5 | 17.1 | | | 14.9 | 15.5 | | | 30.0 |
| 34.0 | 22.4 | 23.8 | | | 18.1 | 18.7 | | | 14.9 | 15.4 | | | 13.5 | 14.0 | | | 34.0 |
| 38.0 | 20.4 | 20.7 | 40.0 m/17.5 | | 16.2 | 16.8 | | | 13.5 | 14.0 | | | 12.2 | 12.7 | | | 38.0 |
| 42.0 | 17.5 | 18.2 | 16.4 | | 14.3 | 14.9 | 44.0 m/15.2 | | 12.3 | 12.7 | | | 11.2 | 11.5 | | | 42.0 |
| 46.0 | 13.8 | 16.2 | 14.6 | 14.1 | 12.5 | 13.2 | 14.3 | | 11.2 | 11.6 | 48.0 m/12.2 | | 10.2 | 10.6 | | | 46.0 |
| 50.0 | | 13.0 | 13.1 | 12.6 | 10.8 | 11.6 | 12.8 | 12.3 | 10.3 | 10.6 | 11.7 | | 9.4 | 9.7 | 10.6 | | 50.0 |
| 54.0 | | | 11.8 | 11.4 | 52.0 m/10.0 | 9.9 | 11.5 | 11.1 | 9.4 | 9.8 | 10.7 | 10.8 | 8.6 | 8.9 | 9.8 | 56.0 m/9.7 | 54.0 |
| 58.0 | | | 56.0 m/11.3 | 10.3 | | 56.0 m/9.1 | 10.4 | 10.0 | 8.4 | 9.0 | 9.9 | 9.8 | 8.0 | 8.3 | 9.0 | 9.3 | 58.0 |
| 62.0 | | | | | | | 9.0 | 9.1 | | 7.6 | 9.1 | 8.9 | 7.3 | 7.6 | 8.4 | 8.6 | 62.0 |
| 66.0 | | | | | | | | 64.0 m/8.7 | | | 8.1 | 8.1 | | 64.0 m/7.3 | 7.8 | 8.0 | 66.0 |
| 70.0 | | | | | | | | | | | 68.0 m/7.5 | 7.4 | | | 7.1 | 7.3 | 70.0 |
| 74.0 | | | | | | | | | | | | | | | 72.0 m/6.5 | 6.5 | 74.0 |
| Reeves | 3 | | | | 2 | | | | 2 | | | | 2 | | | | Reeves |

**33.5 m Boom Length**

| Boom length (m) | 33.5 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | | | | 27.4 | | | | 33.5 | | | | 39.6 | | | | Jib length (m) |
| Boom angle / Working Radius (m) | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | Boom angle / Working Radius (m) |
| 10.0 | 67.5 | | | | | | | | | | | | | | | | 10.0 |
| 12.0 | 65.3 | | | | 63.5 | | | | | | | | | | | | 12.0 |
| 14.0 | 60.2 | | | | 59.3 | | | | 52.2 | | | | | | | | 14.0 |
| 16.0 | 55.1 | 58.1 | | | 55.1 | | | | 50.9 | | | | 39.5 | | | | 16.0 |
| 18.0 | 49.9 | 53.6 | | | 50.9 | 52.9 | | | 48.3 | | | | 38.7 | | | | 18.0 |
| 20.0 | 44.8 | 47.0 | | | 46.7 | 46.9 | | | 45.6 | 46.5 | | | 37.5 | | | | 20.0 |
| 22.0 | 39.7 | 41.7 | | | 42.5 | 41.5 | | | 42.7 | 41.3 | | | 36.4 | 38.5 | | | 22.0 |
| 24.0 | 31.2 | 37.3 | | | 37.6 | 37.2 | | | 38.2 | 37.0 | | | 34.9 | 36.8 | | | 24.0 |
| 26.0 | | 33.7 | | | 33.6 | 33.6 | | | 34.2 | 33.4 | | | 33.2 | 33.3 | | | 26.0 |
| 28.0 | | | 27.7 | | 28.5 | 30.7 | | | 30.8 | 30.5 | | | 31.5 | 30.3 | | | 28.0 |
| 30.0 | | | 25.4 | | 23.3 | 28.1 | 32.0 m/23.0 | | 28.0 | 27.9 | | | 28.7 | 27.8 | | | 30.0 |
| 34.0 | | | 21.7 | 21.0 | | 32.0 m/26.0 | 21.3 | | 21.8 | 23.9 | 36.0 m/19.6 | | 24.1 | 23.8 | | | 34.0 |
| 38.0 | | | 36.0 m/20.2 | 18.3 | | | 18.5 | 18.0 | 36.0 m/18.3 | 20.8 | 18.3 | | 20.0 | 20.7 | 40.0 m/17.1 | | 38.0 |
| 42.0 | | | | | | | 40.0 m/17.4 | 15.9 | | | 16.1 | 15.6 | 14.9 | 18.2 | 16.0 | 44.0 m/14.4 | 42.0 |
| 46.0 | | | | | | | | 44.0 m/14.9 | | | 14.3 | 13.8 | | 44.0 m/17.1 | 14.3 | 13.6 | 46.0 |
| 50.0 | | | | | | | | | | | | 12.4 | | | 12.8 | 12.2 | 50.0 |
| 54.0 | | | | | | | | | | | | | | | 52.0 m/12.1 | 11.0 | 54.0 |
| 58.0 | | | | | | | | | | | | | | | | 56.0 m/10.5 | 58.0 |
| Reeves | 5 | | | | 5 | | | | 4 | | | | 3 | | | | Reeves |

| Boom length (m) | 33.5 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 45.7 | | | | 51.8 | | | | 57.9 | | | | 61.0 | | | | Jib length (m) |
| Boom angle / Working Radius (m) | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | Boom angle / Working Radius (m) |
| 18.0 | 28.8 | | | | 24.7 | | | | | | | | | | | | 18.0 |
| 20.0 | 28.1 | | | | 24.4 | | | | 19.8 | | | | | | | | 20.0 |
| 22.0 | 27.6 | | | | 24.1 | | | | 19.5 | | | | 17.5 | | | | 22.0 |
| 24.0 | 27.0 | 27.9 | | | 23.2 | | | | 19.2 | | | | 17.3 | | | | 24.0 |
| 26.0 | 26.6 | 27.3 | | | 22.1 | 22.5 | | | 18.3 | | | | 16.4 | | | | 26.0 |
| 28.0 | 25.9 | 26.8 | | | 21.1 | 21.4 | | | 17.3 | 18.0 | | | 15.6 | | | | 28.0 |
| 30.0 | 24.7 | 26.4 | | | 20.0 | 20.4 | | | 16.4 | 17.1 | | | 14.8 | 15.4 | | | 30.0 |
| 34.0 | 22.4 | 23.6 | | | 18.0 | 18.4 | | | 14.8 | 15.4 | | | 13.4 | 13.9 | | | 34.0 |
| 38.0 | 20.4 | 20.5 | | | 16.1 | 16.6 | | | 13.4 | 13.9 | | | 12.1 | 12.6 | | | 38.0 |
| 42.0 | 17.8 | 18.0 | 44.0 m/14.9 | | 14.3 | 14.8 | | | 12.2 | 12.6 | | | 11.1 | 11.5 | | | 42.0 |
| 46.0 | 14.2 | 16.1 | 14.0 | 48.0 m/12.6 | 12.5 | 13.2 | 13.7 | | 11.2 | 11.6 | | | 10.2 | 10.5 | | | 46.0 |
| 50.0 | 48.0 m/12.2 | 13.9 | 12.5 | 12.0 | 10.9 | 11.6 | 12.3 | 52.0 m/11.0 | 10.2 | 10.6 | 11.6 | | 9.4 | 9.7 | 52.0 m/10.1 | | 50.0 |
| 54.0 | | | 11.3 | 10.8 | 52.0 m/10.1 | 10.0 | 11.0 | 10.5 | 9.4 | 9.8 | 10.7 | 56.0 m/9.7 | 8.6 | 8.9 | 9.7 | | 54.0 |
| 58.0 | | | 10.3 | 9.8 | | 56.0 m/9.2 | 10.0 | 9.4 | 8.5 | 9.0 | 9.7 | 9.2 | 8.0 | 8.2 | 9.0 | 9.1 | 58.0 |
| 62.0 | | | | 8.9 | | | 9.0 | 8.6 | | 7.8 | 8.8 | 8.3 | 7.3 | 7.6 | 8.3 | 8.2 | 62.0 |
| 66.0 | | | | | | | 64.0 m/8.4 | 7.8 | | | 8.0 | 7.6 | | 64.0 m/7.3 | 7.7 | 7.5 | 66.0 |
| 70.0 | | | | | | | | 68.0 m/7.5 | | | 7.0 | 6.9 | | | 7.0 | 6.8 | 70.0 |
| 74.0 | | | | | | | | | | | | 6.3 | | | 6.0 | 6.2 | 74.0 |
| 78.0 | | | | | | | | | | | | | | | | 76.0 m/5.9 | 78.0 |
| Reeves | 3 | | | | 2 | | | | 2 | | | | 2 | | | | Reeves |

Note: Ratings according to EN13000.

Ratings shown in ☐ are determined by the strength of the boom or other structural components.

Refer to notes P25 and P26.

# STERLING CRANE

## Luffing Jib Lifting Capacities (Without Main Hook)

Unit: metric ton

**Counterweight: 90.0 t, Carbody weight: 24.0 t**

### 39.6 m Boom Length

| Boom length (m) | 39.6 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | | | | 27.4 | | | | 33.5 | | | | 39.6 | | | | Jib length (m) |
| Boom angle | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | Boom angle |
| Working Radius (m) | | | | | | | | | | | | | | | | | Working Radius (m) |
| 10.0 | 64.5 | | | | | | | | | | | | | | | | 10.0 |
| 12.0 | 60.6 | | | | 54.0 | | | | | | | | | | | | 12.0 |
| 14.0 | 56.6 | | | | 54.0 | | | | 48.5 | | | | | | | | 14.0 |
| 16.0 | 52.7 | 57.7 | | | 53.0 | | | | 48.1 | | | | 37.4 | | | | 16.0 |
| 18.0 | 48.8 | 53.2 | | | 49.5 | 52.5 | | | 47.1 | | | | 37.0 | | | | 18.0 |
| 20.0 | 44.8 | 46.6 | | | 46.1 | 46.5 | | | 44.8 | 46.1 | | | 36.6 | | | | 20.0 |
| 22.0 | 40.9 | 41.3 | | | 42.7 | 41.2 | | | 42.6 | 40.9 | | | 36.2 | 37.1 | | | 22.0 |
| 24.0 | 32.4 | 37.0 | | | 38.0 | 36.9 | | | 38.2 | 36.6 | | | 35.0 | 36.5 | | | 24.0 |
| 26.0 | | 33.4 | | | 33.9 | 33.3 | | | 34.5 | 33.1 | | | 33.3 | 33.0 | | | 26.0 |
| 28.0 | | 30.4 | | | 29.2 | 30.4 | | | 31.1 | 30.2 | | | 31.5 | 30.0 | | | 28.0 |
| 30.0 | | | 32.0 m/22.5 | | 24.0 | 27.9 | | | 28.2 | 27.7 | | | 28.9 | 27.5 | | | 30.0 |
| 34.0 | | | 20.9 | 36.0 m/18.6 | | 23.8 | 20.4 | | 22.3 | 23.6 | | | 24.2 | 23.5 | | | 34.0 |
| 38.0 | | | 18.1 | 17.4 | | | 17.7 | 40.0 m/16.0 | 36.0 m/18.8 | 20.6 | 17.5 | | 20.4 | 20.5 | | | 38.0 |
| 42.0 | | | | 40.0 m/16.3 | | | 15.6 | 15.0 | | | 15.4 | 44.0 m/13.8 | 15.4 | 18.0 | 15.3 | | 42.0 |
| 46.0 | | | | | | | 44.0 m/14.7 | 13.4 | | | 13.7 | 13.0 | | 44.0 m/17.0 | 13.6 | 48.0 m/12.1 | 46.0 |
| 50.0 | | | | | | | | | | | 12.3 | 11.7 | | | 12.2 | 11.5 | 50.0 |
| 54.0 | | | | | | | | | | | | 52.0 m/11.1 | | | 11.0 | 10.3 | 54.0 |
| 58.0 | | | | | | | | | | | | | | | | 9.4 | 58.0 |
| Reeves | 5 | | | | 4 | | | | 4 | | | | 3 | | | | Reeves |

| Boom length (m) | 39.6 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 45.7 | | | | 51.8 | | | | 57.9 | | | | 61.0 | | | | Jib length (m) |
| Boom angle | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | Boom angle |
| Working Radius (m) | | | | | | | | | | | | | | | | | Working Radius (m) |
| 18.0 | 28.8 | | | | | | | | | | | | | | | | 18.0 |
| 20.0 | 28.2 | | | | 23.4 | | | | 19.0 | | | | | | | | 20.0 |
| 22.0 | 27.6 | | | | 23.2 | | | | 18.7 | | | | 16.9 | | | | 22.0 |
| 24.0 | 27.0 | 28.0 | | | 22.9 | | | | 18.4 | | | | 16.7 | | | | 24.0 |
| 26.0 | 26.6 | 27.5 | | | 21.9 | 22.1 | | | 18.1 | | | | 16.3 | | | | 26.0 |
| 28.0 | 25.9 | 27.0 | | | 20.8 | 21.1 | | | 17.2 | | | | 15.5 | | | | 28.0 |
| 30.0 | 24.7 | 26.5 | | | 19.8 | 20.1 | | | 16.3 | 17.0 | | | 14.7 | 15.4 | | | 30.0 |
| 34.0 | 22.5 | 23.3 | | | 17.8 | 18.2 | | | 14.7 | 15.3 | | | 13.3 | 13.8 | | | 34.0 |
| 38.0 | 20.4 | 20.3 | | | 15.9 | 16.4 | | | 13.3 | 13.8 | | | 12.1 | 12.5 | | | 38.0 |
| 42.0 | 17.9 | 17.8 | | | 14.1 | 14.6 | | | 12.1 | 12.6 | | | 11.0 | 11.4 | | | 42.0 |
| 46.0 | 14.5 | 15.9 | 13.3 | | 12.5 | 13.0 | 48.0 m/12.3 | | 11.1 | 11.5 | | | 10.1 | 10.4 | | | 46.0 |
| 50.0 | 48.0 m/12.5 | 14.2 | 11.9 | 52.0 m/10.6 | 10.9 | 11.5 | 11.6 | | 10.2 | 10.5 | 52.0 m/10.8 | | 9.3 | 9.6 | | | 50.0 |
| 54.0 | | | 10.7 | 10.1 | 9.2 | 10.0 | 10.4 | 56.0 m/9.3 | 9.4 | 9.7 | 10.2 | | 8.6 | 8.9 | 9.6 | | 54.0 |
| 58.0 | | | 9.7 | 9.1 | | 56.0 m/9.3 | 9.4 | 8.8 | 8.4 | 8.9 | 9.2 | 60.0 m/8.1 | 7.9 | 8.2 | 8.9 | | 58.0 |
| 62.0 | | | 60.0 m/9.3 | 8.3 | | | 8.6 | 8.0 | 60.0 m/7.7 | 7.7 | 8.3 | 7.7 | 6.7 | 7.6 | 8.2 | 7.6 | 62.0 |
| 66.0 | | | | 64.0 m/7.9 | | | 7.8 | 7.2 | | | 7.6 | 7.0 | | 6.7 | 7.4 | 6.8 | 66.0 |
| 70.0 | | | | | | | | 6.6 | | | 6.9 | 6.3 | | | 6.8 | 6.2 | 70.0 |
| 74.0 | | | | | | | | | | | 72.0 m/6.4 | 5.7 | | | 5.9 | 5.6 | 74.0 |
| 78.0 | | | | | | | | | | | | 76.0 m/5.5 | | | 76.0 m/5.4 | 5.1 | 78.0 |
| Reeves | 3 | | | | 2 | | | | 2 | | | | 2 | | | | Reeves |

### 45.7 m Boom Length

| Boom length (m) | 45.7 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | | | | 27.4 | | | | 33.5 | | | | 39.6 | | | | Jib length (m) |
| Boom angle | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | Boom angle |
| Working Radius (m) | | | | | | | | | | | | | | | | | Working Radius (m) |
| 12.0 | 54.0 | | | | 49.0 | | | | | | | | | | | | 12.0 |
| 14.0 | 54.0 | | | | 47.5 | | | | 40.5 | | | | | | | | 14.0 |
| 16.0 | 53.0 | 54.0 | | | 46.0 | | | | 40.5 | | | | 35.2 | | | | 16.0 |
| 18.0 | 49.3 | 52.8 | | | 44.6 | | | | 40.5 | | | | 34.9 | | | | 18.0 |
| 20.0 | 45.4 | 46.2 | | | 43.1 | 45.7 | | | 40.5 | | | | 34.6 | | | | 20.0 |
| 22.0 | 41.9 | 40.9 | | | 41.6 | 40.7 | | | 38.5 | 40.3 | | | 33.8 | | | | 22.0 |
| 24.0 | 33.4 | 36.6 | | | 38.2 | 36.5 | | | 36.4 | 36.4 | | | 32.6 | 35.0 | | | 24.0 |
| 26.0 | | 33.1 | | | 34.2 | 33.0 | | | 34.4 | 32.9 | | | 31.3 | 32.6 | | | 26.0 |
| 28.0 | | 30.1 | | | 29.8 | 30.1 | | | 31.3 | 30.0 | | | 30.1 | 29.6 | | | 28.0 |
| 30.0 | | | | | 24.7 | 27.6 | | | 28.4 | 27.5 | | | 28.8 | 27.2 | | | 30.0 |
| 34.0 | | | 20.0 | | | 23.6 | | | 22.7 | 23.5 | | | 24.4 | 23.3 | | | 34.0 |
| 38.0 | | | 17.3 | 16.4 | | | 16.9 | | 36.0 m/19.3 | 20.4 | 40.0 m/15.6 | | 20.7 | 20.2 | | | 38.0 |
| 42.0 | | | 40.0 m/16.2 | 14.4 | | | 14.9 | 14.1 | | 40.0 m/19.1 | 14.6 | | 15.7 | 17.8 | 44.0 m/13.7 | | 42.0 |
| 46.0 | | | | 44.0 m/13.6 | | | 13.2 | 12.6 | | | 13.0 | 12.3 | | 15.8 | 12.9 | | 46.0 |
| 50.0 | | | | | | | | 11.2 | | | 11.6 | 11.0 | | | 11.5 | 10.7 | 50.0 |
| 54.0 | | | | | | | | | | | 52.0 m/11.0 | 9.9 | | | 10.4 | 9.6 | 54.0 |
| 58.0 | | | | | | | | | | | | 56.0 m/9.5 | | | 9.4 | 8.7 | 58.0 |
| 62.0 | | | | | | | | | | | | | | | | 60.0 m/8.3 | 62.0 |
| Reeves | 4 | | | | 4 | | | | 3 | | | | 3 | | | | Reeves |

Note: Ratings according to EN13000.

Ratings shown in ☐ are determined by the strength of the boom or other structural components.

Refer to notes P25 and P26.

# STERLING CRANE

## Luffing Jib Lifting Capacities (Without Main Hook)

Unit: metric ton

**Counterweight: 90.0 t, Carbody weight: 24.0 t**

**45.7 m Boom Length**

| Boom length (m) | 45.7 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 45.7 | | | | 51.8 | | | | 57.9 | | | | 61.0 | | | | Jib length (m) |
| Boom angle / Working Radius (m) | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | Boom angle |
| 18.0 | 28.1 | | | | | | | | | | | | | | | | 18.0 |
| 20.0 | 27.8 | | | | 22.4 | | | | 18.3 | | | | | | | | 20.0 |
| 22.0 | 27.5 | | | | 22.1 | | | | 18.0 | | | | 16.3 | | | | 22.0 |
| 24.0 | 27.1 | | | | 21.8 | | | | 17.7 | | | | 16.1 | | | | 24.0 |
| 26.0 | 26.6 | 27.6 | | | 21.5 | | | | 17.4 | | | | 15.9 | | | | 26.0 |
| 28.0 | 26.0 | 27.1 | | | 20.6 | 20.8 | | | 17.1 | | | | 15.4 | | | | 28.0 |
| 30.0 | 24.7 | 26.6 | | | 19.6 | 19.8 | | | 16.2 | 17.0 | | | 14.6 | 15.3 | | | 30.0 |
| 34.0 | 22.5 | 23.0 | | | 17.6 | 17.9 | | | 14.6 | 15.3 | | | 13.2 | 13.8 | | | 34.0 |
| 38.0 | 20.4 | 20.0 | | | 15.8 | 16.1 | | | 13.2 | 13.8 | | | 12.0 | 12.5 | | | 38.0 |
| 42.0 | 18.0 | 17.6 | | | 14.0 | 14.5 | | | 12.1 | 12.5 | | | 10.9 | 11.4 | | | 42.0 |
| 46.0 | 14.7 | 15.6 | 48.0 m/11.9 | | 12.4 | 12.9 | | | 11.0 | 11.4 | | | 10.0 | 10.4 | | | 46.0 |
| 50.0 | 48.0 m/12.8 | 14.0 | 11.3 | | 10.8 | 11.4 | 52.0 m/10.4 | | 10.1 | 10.5 | | | 9.2 | 9.5 | | | 50.0 |
| 54.0 | | 52.0 m/13.3 | 10.1 | 9.3 | 9.2 | 10.0 | 9.8 | | 9.3 | 9.7 | 9.6 | | 8.5 | 8.8 | 56.0 m/8.9 | | 54.0 |
| 58.0 | | | 9.2 | 8.4 | | 8.5 | 8.9 | 8.1 | 8.4 | 8.8 | 8.6 | | 7.5 | 8.1 | 8.5 | | 58.0 |
| 62.0 | | | 8.3 | 7.7 | | | 8.0 | 7.3 | 60.0 m/7.7 | 7.7 | 7.8 | 7.0 | 5.6 | 7.5 | 7.7 | 64.0 m/6.4 | 62.0 |
| 66.0 | | | 64.0 m/8.0 | 7.0 | | | 7.3 | 6.6 | | 64.0 m/7.0 | 7.1 | 6.3 | | 6.6 | 6.9 | 6.1 | 66.0 |
| 70.0 | | | | | | | 6.6 | 5.9 | | | 6.4 | 5.6 | | | 6.2 | 5.5 | 70.0 |
| 74.0 | | | | | | | | 72.0 m/5.6 | | | 5.8 | 5.1 | | | 5.6 | 4.9 | 74.0 |
| 78.0 | | | | | | | | | | | | 4.6 | | | 4.8 | 4.4 | 78.0 |
| 82.0 | | | | | | | | | | | | | | | | 4.0 | 82.0 |
| Reeves | 3 | | | | 2 | | | | 2 | | | | 2 | | | | Reeves |

**51.8 m Boom Length**

| Boom length (m) | 51.8 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | | | | 27.4 | | | | 33.5 | | | | 39.6 | | | | Jib length (m) |
| Boom angle / Working Radius (m) | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | Boom angle |
| 12.0 | 54.0 | | | | 40.5 | | | | | | | | | | | | 12.0 |
| 14.0 | 52.4 | | | | 40.5 | | | | 40.5 | | | | | | | | 14.0 |
| 16.0 | 47.1 | | | | 40.5 | | | | 40.5 | | | | 32.7 | | | | 16.0 |
| 18.0 | 42.6 | 51.8 | | | 40.5 | | | | 40.5 | | | | 32.3 | | | | 18.0 |
| 20.0 | 38.8 | 45.8 | | | 39.1 | 40.5 | | | 38.7 | | | | 31.9 | | | | 20.0 |
| 22.0 | 35.5 | 40.6 | | | 35.8 | 40.3 | | | 35.6 | 39.8 | | | 31.5 | | | | 22.0 |
| 24.0 | 32.5 | 36.3 | | | 33.0 | 36.1 | | | 32.9 | 35.9 | | | 31.1 | 32.7 | | | 24.0 |
| 26.0 | | 32.9 | | | 30.5 | 32.6 | | | 30.6 | 32.5 | | | 30.2 | 32.2 | | | 26.0 |
| 28.0 | | 29.9 | | | 28.3 | 29.7 | | | 28.4 | 29.6 | | | 28.1 | 29.3 | | | 28.0 |
| 30.0 | | | | | 25.5 | 27.2 | | | 26.5 | 27.1 | | | 26.3 | 26.9 | | | 30.0 |
| 34.0 | | | 36.0 m/17.7 | | | 23.3 | | | 23.2 | 23.2 | | | 23.2 | 23.0 | | | 34.0 |
| 38.0 | | | 16.5 | | | | 40.0 m/15.1 | | 36.0 m/19.9 | 20.2 | | | 20.6 | 19.9 | | | 38.0 |
| 42.0 | | | 14.5 | 13.6 | | | 14.1 | | | 40.0 m/18.9 | 13.9 | | 16.1 | 17.5 | | | 42.0 |
| 46.0 | | | | 12.0 | | | 12.5 | 11.6 | | | 12.3 | | | 15.6 | 12.1 | | 46.0 |
| 50.0 | | | | | | | 48.0 m/11.9 | 10.4 | | | 11.0 | 10.2 | | | 10.8 | | 50.0 |
| 54.0 | | | | | | | | 52.0 m/9.9 | | | 9.9 | 9.2 | | | 9.7 | 8.8 | 54.0 |
| 58.0 | | | | | | | | | | | | 8.3 | | | 8.8 | 7.9 | 58.0 |
| 62.0 | | | | | | | | | | | | | | | 60.0 m/8.4 | 7.2 | 62.0 |
| 66.0 | | | | | | | | | | | | | | | | 64.0 m/6.8 | 66.0 |
| Reeves | 4 | | | | 3 | | | | 3 | | | | 3 | | | | Reeves |

| Boom length (m) | 51.8 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 45.7 | | | | 51.8 | | | | 57.9 | | | | 61.0 | | | | Jib length (m) |
| Boom angle / Working Radius (m) | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | Boom angle |
| 18.0 | 26.2 | | | | | | | | | | | | | | | | 18.0 |
| 20.0 | 25.9 | | | | 21.2 | | | | | | | | | | | | 20.0 |
| 22.0 | 25.7 | | | | 20.9 | | | | 17.3 | | | | 15.7 | | | | 22.0 |
| 24.0 | 25.4 | | | | 20.6 | | | | 17.0 | | | | 15.4 | | | | 24.0 |
| 26.0 | 25.1 | 26.0 | | | 20.3 | | | | 16.7 | | | | 15.1 | | | | 26.0 |
| 28.0 | 24.8 | 25.7 | | | 20.0 | 20.5 | | | 16.4 | | | | 14.8 | | | | 28.0 |
| 30.0 | 24.5 | 25.4 | | | 19.4 | 19.5 | | | 16.1 | 16.9 | | | 14.5 | 32.0 m/14.5 | | | 30.0 |
| 34.0 | 22.5 | 22.7 | | | 17.4 | 17.7 | | | 14.5 | 15.2 | | | 13.1 | 13.7 | | | 34.0 |
| 38.0 | 20.5 | 19.7 | | | 15.6 | 15.9 | | | 13.1 | 13.7 | | | 11.9 | 12.4 | | | 38.0 |
| 42.0 | 18.0 | 17.3 | | | 13.9 | 14.3 | | | 12.0 | 12.4 | | | 10.9 | 11.3 | | | 42.0 |
| 46.0 | 14.9 | 15.4 | | | 12.3 | 12.7 | | | 11.0 | 11.4 | | | 10.0 | 10.3 | | | 46.0 |
| 50.0 | 48.0 m/13.0 | 13.8 | 10.6 | | 10.7 | 11.3 | | | 10.1 | 10.4 | | | 9.2 | 9.5 | | | 50.0 |
| 54.0 | | 52.0 m/13.1 | 9.5 | | 9.2 | 9.9 | 9.2 | | 9.3 | 9.6 | | | 8.5 | 8.7 | | | 54.0 |
| 58.0 | | | 8.5 | 7.6 | | 8.5 | 8.2 | | 7.3 | 8.7 | 8.0 | | 6.3 | 8.1 | 7.8 | | 58.0 |
| 62.0 | | | 7.8 | 6.8 | | | 7.4 | 6.4 | 60.0 m/6.4 | 7.6 | 7.1 | | 4.4 | 7.5 | 6.9 | | 62.0 |
| 66.0 | | | 7.1 | 6.1 | | | 6.7 | 5.8 | | 64.0 m/7.0 | 6.4 | 5.4 | | 5.7 | 6.2 | 68.0 m/4.9 | 66.0 |
| 70.0 | | | | 5.6 | | | 6.1 | 5.2 | | | 5.8 | 4.8 | | | 5.6 | 4.7 | 70.0 |
| 74.0 | | | | | | | 72.0 m/5.8 | 4.6 | | | 5.2 | 4.3 | | | 5.0 | 4.2 | 74.0 |
| 78.0 | | | | | | | | 76.0 m/4.4 | | | 4.7 | 3.9 | | | 4.5 | 3.7 | 78.0 |
| 82.0 | | | | | | | | | | | | 3.5 | | | 80.0 m/4.2 | 3.3 | 82.0 |
| 86.0 | | | | | | | | | | | | | | | | 84.0 m/3.1 | 86.0 |
| Reeves | 2 | | | | 2 | | | | 2 | | | | 2 | | | | Reeves |

Note: Ratings according to EN13000.

Ratings shown in ☐ are determined by the strength of the boom or other structural components.

Refer to notes P25 and P26.

Unit: metric ton

# Luffing Jib Lifting Capacities (Without Main Hook)

**Counterweight: 90.0 t,**
**Carbody weight: 24.0 t**

**57.9 m Boom Length**

| Boom length (m) | 57.9 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | | | | 27.4 | | | | 33.5 | | | | 39.6 | | | | Jib length (m) |
| Boom angle / Working Radius (m) | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | Boom angle / Working Radius (m) |
| 12.0 | 40.5 | | | | | | | | | | | | | | | | 12.0 |
| 14.0 | 38.4 | | | | 39.5 | | | | 37.2 | | | | | | | | 14.0 |
| 16.0 | 35.4 | | | | 35.7 | | | | 35.5 | | | | 27.0 | | | | 16.0 |
| 18.0 | 33.0 | 40.5 | | | 32.4 | | | | 32.3 | | | | 27.0 | | | | 18.0 |
| 20.0 | 30.0 | 37.3 | | | 29.6 | 36.3 | | | 29.6 | | | | 27.0 | | | | 20.0 |
| 22.0 | 27.5 | 33.7 | | | 27.2 | 33.0 | | | 27.2 | 32.8 | | | 27.0 | | | | 22.0 |
| 24.0 | 25.2 | 30.7 | | | 25.1 | 30.2 | | | 25.1 | 30.1 | | | 25.0 | 27.0 | | | 24.0 |
| 26.0 | | 28.0 | | | 23.3 | 27.7 | | | 23.3 | 27.6 | | | 23.2 | 27.0 | | | 26.0 |
| 28.0 | | 25.7 | | | 21.6 | 25.5 | | | 21.7 | 25.5 | | | 21.6 | 25.3 | | | 28.0 |
| 30.0 | | 23.6 | | | 20.1 | 23.6 | | | 20.2 | 23.6 | | | 20.1 | 23.5 | | | 30.0 |
| 34.0 | | | | | | 20.4 | | | 17.7 | 20.5 | | | 17.7 | 20.4 | | | 34.0 |
| 38.0 | | | 15.8 | | | 36.0 m/19.0 | | | 36.0 m/16.5 | 17.9 | | | 15.6 | 17.9 | | | 38.0 |
| 42.0 | | | 13.8 | 44.0 m/11.8 | | | 13.6 | | | 15.7 | | | 13.8 | 15.8 | | | 42.0 |
| 46.0 | | | 44.0 m/13.0 | 11.2 | | | 12.0 | 48.0 m/10.2 | | | 11.7 | | | 14.0 | 48.0 m/10.7 | | 46.0 |
| 50.0 | | | | 48.0 m/10.5 | | | 10.8 | 9.7 | | | 10.4 | 52.0 m/8.8 | | 48.0 m/13.2 | 10.1 | | 50.0 |
| 54.0 | | | | | | | | 8.7 | | | 9.4 | 8.3 | | | 9.1 | 56.0 m/7.4 | 54.0 |
| 58.0 | | | | | | | | | | | 56.0 m/8.9 | 7.4 | | | 8.2 | 7.0 | 58.0 |
| 62.0 | | | | | | | | | | | | 60.0 m/7.0 | | | 7.4 | 6.3 | 62.0 |
| 66.0 | | | | | | | | | | | | | | | | 5.7 | 66.0 |
| Reeves | 3 | | | | 3 | | | | 3 | | | | 2 | | | | Reeves |

| Boom length (m) | 57.9 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 45.7 | | | | 51.8 | | | | 57.9 | | | | 61.0 | | | | Jib length (m) |
| Boom angle / Working Radius (m) | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | Boom angle / Working Radius (m) |
| 18.0 | 24.5 | | | | | | | | | | | | | | | | 18.0 |
| 20.0 | 24.2 | | | | 20.0 | | | | | | | | | | | | 20.0 |
| 22.0 | 23.9 | | | | 19.7 | | | | 16.4 | | | | 14.9 | | | | 22.0 |
| 24.0 | 23.6 | | | | 19.4 | | | | 16.2 | | | | 14.7 | | | | 24.0 |
| 26.0 | 23.1 | 24.3 | | | 19.1 | | | | 16.0 | | | | 14.5 | | | | 26.0 |
| 28.0 | 21.5 | 24.0 | | | 18.8 | | | | 15.8 | | | | 14.3 | | | | 28.0 |
| 30.0 | 20.0 | 22.8 | | | 18.5 | 19.3 | | | 15.6 | 32.0 m/16.0 | | | 14.1 | 32.0 m/14.4 | | | 30.0 |
| 34.0 | 17.6 | 19.8 | | | 17.2 | 17.4 | | | 14.4 | 15.1 | | | 13.0 | 13.7 | | | 34.0 |
| 38.0 | 15.6 | 17.5 | | | 15.4 | 15.7 | | | 13.1 | 13.6 | | | 11.8 | 12.3 | | | 38.0 |
| 42.0 | 13.8 | 15.5 | | | 13.8 | 14.1 | | | 11.9 | 12.4 | | | 10.8 | 11.2 | | | 42.0 |
| 46.0 | 12.4 | 13.9 | | | 12.2 | 12.6 | | | 10.9 | 11.3 | | | 9.9 | 10.2 | | | 46.0 |
| 50.0 | 48.0 m/11.7 | 12.4 | 52.0 m/9.3 | | 10.6 | 11.1 | | | 10.0 | 10.3 | | | 9.1 | 9.4 | | | 50.0 |
| 54.0 | | 52.0 m/11.8 | 8.8 | | 9.2 | 9.8 | 56.0 m/7.9 | | 7.9 | 9.5 | | | 7.0 | 8.6 | | | 54.0 |
| 58.0 | | | 7.9 | 60.0 m/6.5 | | 8.5 | 7.5 | | 6.0 | 8.5 | 60.0 m/6.8 | | 5.0 | 8.0 | | | 58.0 |
| 62.0 | | | 7.1 | 6.1 | | | 6.7 | 64.0 m/5.2 | 60.0 m/5.1 | 7.5 | 6.4 | | 3.3 | 6.8 | 6.2 | | 62.0 |
| 66.0 | | | 6.4 | 5.5 | | | 6.0 | 4.9 | | 64.0 m/6.4 | 5.7 | 68.0 m/4.3 | | 4.7 | 5.5 | | 66.0 |
| 70.0 | | | 68.0 m/6.1 | 5.0 | | | 5.4 | 4.4 | | | 5.1 | 4.0 | | 68.0 m/3.7 | 4.9 | 3.9 | 70.0 |
| 74.0 | | | | 72.0 m/4.7 | | | 4.9 | 3.9 | | | 4.6 | 3.6 | | | 4.4 | 3.4 | 74.0 |
| 78.0 | | | | | | | | 3.5 | | | 4.1 | 3.2 | | | 3.9 | 3.0 | 78.0 |
| 82.0 | | | | | | | | | | | 80.0 m/3.9 | 2.8 | | | 3.5 | 2.6 | 82.0 |
| 86.0 | | | | | | | | | | | | 84.0 m/2.6 | | | | | 86.0 |
| Reeves | 2 | | | | 2 | | | | 2 | | | | 2 | | | | Reeves |

Note:
Ratings according to EN13000.
Ratings shown in ☐ are determined by the strength of the boom or other structural components.
Refer to notes P25 and P26.

Unit: metric ton

# Luffing Jib Lifting Capacities (Without Main Hook)

**Counterweight: 90.0 t,**
**Carbody weight: 24.0 t**

61.0 m Boom Length

| Boom length (m) | 61.0 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 30.5 | | | | 33.5 | | | | 39.6 | | | | 45.7 | | | | Jib length (m) |
| Boom angle / Working Radius (m) | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | Boom angle / Working Radius (m) |
| 14.0 | 35.0 | | | | 27.0 | | | | | | | | | | | | 14.0 |
| 16.0 | 31.6 | | | | 27.0 | | | | 27.0 | | | | | | | | 16.0 |
| 18.0 | 28.7 | | | | 27.0 | | | | 27.0 | | | | 23.6 | | | | 18.0 |
| 20.0 | 26.2 | | | | 26.1 | | | | 26.0 | | | | 23.3 | | | | 20.0 |
| 22.0 | 24.1 | 29.4 | | | 24.0 | | | | 23.8 | | | | 23.0 | | | | 22.0 |
| 24.0 | 22.2 | 26.9 | | | 22.1 | 25.8 | | | 22.0 | | | | 21.8 | | | | 24.0 |
| 26.0 | 20.6 | 24.6 | | | 20.5 | 23.8 | | | 20.4 | 23.6 | | | 20.2 | | | | 26.0 |
| 28.0 | 19.1 | 22.7 | | | 19.0 | 22.0 | | | 18.9 | 21.8 | | | 18.8 | 21.6 | | | 28.0 |
| 30.0 | 17.8 | 21.0 | | | 17.7 | 20.4 | | | 17.6 | 20.2 | | | 17.5 | 20.1 | | | 30.0 |
| 34.0 | 15.5 | 18.1 | | | 15.5 | 17.7 | | | 15.4 | 17.6 | | | 15.3 | 17.5 | | | 34.0 |
| 38.0 | | 15.7 | | | 36.0 m/14.5 | 15.5 | | | 13.6 | 15.4 | | | 13.5 | 15.3 | | | 38.0 |
| 42.0 | | | 44.0 m/12.2 | | | 13.7 | | | 12.0 | 13.6 | | | 12.0 | 13.5 | | | 42.0 |
| 46.0 | | | 11.5 | | | | 11.2 | | | 12.1 | | | 10.7 | 12.1 | | | 46.0 |
| 50.0 | | | 10.2 | 52.0 m/8.5 | | | 10.0 | | | 48.0 m/11.4 | 9.7 | | 48.0 m/10.1 | 10.8 | | | 50.0 |
| 54.0 | | | 9.2 | 8.0 | | | 9.0 | 7.9 | | | 8.7 | | | 9.6 | 8.3 | | 54.0 |
| 58.0 | | | | 7.1 | | | 8.1 | 7.1 | | | 7.8 | 6.7 | | | 7.4 | | 58.0 |
| 62.0 | | | | 60.0 m/6.8 | | | | 6.4 | | | 7.0 | 6.0 | | | 6.7 | 5.6 | 62.0 |
| 66.0 | | | | | | | | | | | | 5.4 | | | 6.0 | 5.0 | 66.0 |
| 70.0 | | | | | | | | | | | | 68.0 m/5.1 | | | 68.0 m/5.7 | 4.5 | 70.0 |
| 74.0 | | | | | | | | | | | | | | | | 4.1 | 74.0 |
| Reeves | 3 | | | | 2 | | | | 2 | | | | 2 | | | | Reeves |

| Boom length (m) | 61.0 | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 51.8 | | | | 57.9 | | | | 61.0 | | | | Jib length (m) |
| Boom angle / Working Radius (m) | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | 88° | 83° | 68° | 63° | Boom angle / Working Radius (m) |
| 20.0 | 19.4 | | | | | | | | | | | | 20.0 |
| 22.0 | 19.1 | | | | 15.9 | | | | 14.5 | | | | 22.0 |
| 24.0 | 18.8 | | | | 15.7 | | | | 14.3 | | | | 24.0 |
| 26.0 | 18.5 | | | | 15.5 | | | | 14.1 | | | | 26.0 |
| 28.0 | 17.5 | | | | 15.3 | | | | 13.9 | | | | 28.0 |
| 30.0 | 16.4 | 18.6 | | | 15.1 | 32.0 m/15.5 | | | 13.7 | 32.0 m/14.1 | | | 30.0 |
| 34.0 | 14.5 | 16.4 | | | 13.5 | 14.6 | | | 13.0 | 13.6 | | | 34.0 |
| 38.0 | 12.9 | 14.5 | | | 12.2 | 13.0 | | | 11.8 | 12.3 | | | 38.0 |
| 42.0 | 11.6 | 12.9 | | | 11.0 | 11.7 | | | 10.7 | 11.1 | | | 42.0 |
| 46.0 | 10.4 | 11.5 | | | 10.0 | 10.7 | | | 9.8 | 10.2 | | | 46.0 |
| 50.0 | 9.5 | 10.3 | | | 9.0 | 9.7 | | | 8.4 | 9.3 | | | 50.0 |
| 54.0 | 8.6 | 9.3 | 56.0 m/7.5 | | 7.1 | 8.9 | | | 6.3 | 8.6 | | | 54.0 |
| 58.0 | | 8.4 | 7.1 | | 5.3 | 8.2 | 60.0 m/6.3 | | 4.4 | 7.9 | | | 58.0 |
| 62.0 | | 60.0 m/7.7 | 6.3 | | 60.0 m/4.4 | 6.5 | 6.0 | | 2.8 | 6.2 | 5.8 | | 62.0 |
| 66.0 | | | 5.6 | 4.4 | | 4.8 | 5.3 | | | 4.2 | 5.1 | | 66.0 |
| 70.0 | | | 5.0 | 3.9 | | | 4.7 | 3.6 | | 68.0 m/3.2 | 4.6 | 72.0 m/3.2 | 70.0 |
| 74.0 | | | 4.5 | 3.5 | | | 4.2 | 3.2 | | | 4.0 | 3.0 | 74.0 |
| 78.0 | | | | 3.1 | | | 3.8 | 2.8 | | | 3.6 | 76.0 m/2.8 | 78.0 |
| 82.0 | | | | 80.0 m/2.9 | | | 80.0 m/3.6 | | | | 3.2 | | 82.0 |
| Reeves | 2 | | | | 2 | | | | 2 | | | | Reeves |

Note:
Ratings according to EN13000.
Ratings shown in ☐ are determined by the strength of the boom or other structural components.
Refer to notes P25 and P26.

# Luffing Boom Lifting Capacities with Luffing Jib

## Attached at 23 Degree Boom to Luffing Jib Offset Angle

Unit: metric ton

**Counterweight: 90.0 t,**
**Carbody weight: 24.0 t**

**21.3 m Boom Length**

| Boom length (m) | 21.3 | | | | | |
|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | 30.5 | 39.6 | 48.8 | 57.9 | 61.0 |
| 6.4 m | 125.0 | 119.0 | 114.1 | 107.5 | 100.3 | 97.2 |
| 7.0 m | 125.0 | 119.0 | 114.1 | 107.5 | 100.3 | 97.2 |
| 8.0 m | 125.0 | 119.0 | 114.1 | 107.5 | 100.3 | 97.2 |
| 9.0 m | 111.7 | 106.6 | 102.7 | 97.3 | 91.6 | 89.1 |
| 10.0 m | 99.3 | 94.5 | 90.7 | 85.7 | 80.3 | 77.9 |
| 12.0 m | 72.6 | 68.2 | 64.8 | 61.2 | 55.2 | 53.0 |
| 14.0 m | 55.3 | 51.3 | 48.0 | 44.7 | 39.1 | 37.2 |
| 16.0 m | 43.9 | 40.1 | 37.0 | 33.8 | 28.6 | 26.8 |
| 18.0 m | 35.7 | 32.2 | 29.1 | 26.1 | 21.2 | 19.5 |
| Reeves | 10 | 10 | 10 | 8 | 8 | 8 |

**30.5 m Boom Length**

| Boom length (m) | 30.5 | | | | | |
|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | 30.5 | 39.6 | 48.8 | 57.9 | 61.0 |
| 8.0 m | 115.2 | 111.6 | 106.5 | 101.4 | 95.8 | 93.4 |
| 9.0 m | 107.3 | 103.9 | 99.3 | 94.5 | 89.3 | 87.1 |
| 10.0 m | 95.7 | 92.5 | 88.1 | 83.7 | 78.8 | 76.7 |
| 12.0 m | 72.9 | 70.0 | 66.0 | 62.0 | 57.6 | 55.7 |
| 14.0 m | 55.6 | 53.0 | 49.3 | 45.5 | 41.5 | 39.7 |
| 16.0 m | 44.0 | 41.6 | 38.1 | 34.5 | 30.7 | 29.1 |
| 18.0 m | 35.7 | 33.4 | 30.1 | 27.5 | 23.1 | 21.6 |
| 20.0 m | 29.3 | 27.1 | 23.9 | 21.4 | 17.2 | 15.8 |
| 22.0 m | 24.2 | 22.2 | 19.0 | 16.7 | 12.6 | 11.2 |
| 24.0 m | 20.2 | 18.2 | 15.1 | 12.9 | 9.0 | 7.7 |
| Reeves | 10 | 10 | 8 | 8 | 8 | 7 |

**36.6 m Boom Length**

| Boom length (m) | 36.6 | | | | | |
|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | 30.5 | 39.6 | 48.8 | 57.9 | 61.0 |
| 10.0 m | 93.5 | 89.2 | 84.6 | 80.3 | 75.8 | 73.8 |
| 12.0 m | 74.5 | 70.6 | 66.4 | 62.6 | 58.5 | 56.7 |
| 14.0 m | 57.1 | 53.5 | 49.7 | 46.2 | 42.3 | 40.7 |
| 16.0 m | 45.5 | 42.1 | 38.5 | 35.1 | 31.6 | 30.0 |
| 18.0 m | 37.1 | 33.9 | 30.4 | 27.3 | 23.9 | 22.4 |
| 20.0 m | 30.6 | 27.5 | 24.2 | 21.2 | 18.0 | 16.6 |
| 22.0 m | 25.5 | 22.5 | 19.3 | 16.4 | 13.3 | 12.0 |
| 24.0 m | 21.3 | 18.4 | 15.3 | 12.6 | 9.6 | 8.3 |
| 26.0 m | 18.0 | 15.2 | 12.2 | 9.5 | 6.6 | |
| 28.0 m | 15.1 | 12.4 | 9.5 | 7.5 | | |
| 30.0 m | 12.9 | 10.2 | 7.4 | 5.5 | | |
| Reeves | 7 | 7 | 7 | 6 | 6 | 6 |

**42.7 m Boom Length**

| Boom length (m) | 42.7 | | | | | |
|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | 30.5 | 39.6 | 48.8 | 57.9 | 61.0 |
| 12.0 m | 71.6 | 67.5 | 63.5 | 59.9 | 55.9 | 54.2 |
| 14.0 m | 57.3 | 53.5 | 49.8 | 46.5 | 42.9 | 41.3 |
| 16.0 m | 45.7 | 42.1 | 38.6 | 35.5 | 32.1 | 30.6 |
| 18.0 m | 37.2 | 33.8 | 30.6 | 27.6 | 24.4 | 23.0 |
| 20.0 m | 30.6 | 27.4 | 24.2 | 21.4 | 18.3 | 17.0 |
| 22.0 m | 25.3 | 22.2 | 19.2 | 16.5 | 13.6 | 12.3 |
| 24.0 m | 21.2 | 18.2 | 15.2 | 12.6 | 9.8 | 8.6 |
| 26.0 m | 17.8 | 14.9 | 12.0 | 9.5 | 6.8 | |
| 28.0 m | 14.9 | 12.1 | 9.3 | 6.9 | | |
| 30.0 m | 12.5 | 9.8 | 7.1 | 5.2 | | |
| 32.0 m | 10.5 | 7.8 | 5.2 | | | |
| 34.0 m | 8.7 | 6.1 | | | | |
| Reeves | 6 | 6 | 5 | 5 | 5 | 5 |

**48.8 m Boom Length**

| Boom length (m) | 48.8 | | | | | |
|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | 30.5 | 39.6 | 48.8 | 57.9 | 61.0 |
| 12.0 m | 65.4 | 61.7 | 57.8 | 54.0 | 49.3 | 47.3 |
| 14.0 m | 55.8 | 52.5 | 48.5 | 46.2 | 41.8 | 40.3 |
| 16.0 m | 45.5 | 42.4 | 38.7 | 36.6 | 32.4 | 31.0 |
| 18.0 m | 37.1 | 34.2 | 30.6 | 28.6 | 24.7 | 23.4 |
| 20.0 m | 30.4 | 27.7 | 24.3 | 22.4 | 18.7 | 17.4 |
| 22.0 m | 25.2 | 22.5 | 19.3 | 17.4 | 13.9 | 12.6 |
| 24.0 m | 21.0 | 18.4 | 15.3 | 13.5 | 10.1 | 8.9 |
| 26.0 m | 17.6 | 15.1 | 12.1 | 10.3 | 7.0 | |
| 28.0 m | 14.7 | 12.2 | 9.3 | 7.6 | | |
| 30.0 m | 12.3 | 9.9 | 7.0 | 5.4 | | |
| 32.0 m | 10.2 | 7.8 | 5.1 | | | |
| 34.0 m | 8.4 | 6.1 | | | | |
| 36.0 m | 6.9 | | | | | |
| 38.0 m | 5.5 | | | | | |
| Reeves | 5 | 5 | 5 | 5 | 4 | 4 |

**54.9 m Boom Length**

| Boom length (m) | 54.9 | | | | | |
|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | 30.5 | 39.6 | 48.8 | 57.9 | 61.0 |
| 14.0 m | 51.2 | 47.7 | 44.6 | 41.6 | 37.3 | 35.8 |
| 16.0 m | 44.4 | 41.1 | 38.3 | 35.4 | 31.4 | 30.0 |
| 18.0 m | 37.1 | 34.0 | 31.3 | 28.6 | 24.8 | 23.5 |
| 20.0 m | 30.4 | 27.4 | 24.9 | 22.3 | 18.7 | 17.5 |
| 22.0 m | 25.2 | 22.3 | 19.8 | 17.4 | 13.9 | 12.7 |
| 24.0 m | 21.0 | 18.2 | 15.8 | 13.4 | 10.1 | 9.0 |
| 26.0 m | 17.5 | 14.7 | 12.5 | 10.2 | 7.0 | 5.9 |
| 28.0 m | 14.6 | 12.0 | 9.8 | 7.5 | | |
| 30.0 m | 12.1 | 9.5 | 7.4 | 5.2 | | |
| 32.0 m | 10.0 | 7.5 | 5.4 | | | |
| 34.0 m | 8.2 | 5.7 | | | | |
| 36.0 m | 6.6 | | | | | |
| 38.0 m | 5.2 | | | | | |
| Reeves | 4 | 4 | 4 | 4 | 3 | 3 |

**61.0 m Boom Length**

| Boom length (m) | 61.0 | | | | |
|---|---|---|---|---|---|
| Jib length (m) | 30.5 | 39.6 | 48.8 | 57.9 | 61.0 |
| 14.0 m | 46.2 | 43.6 | 40.0 | 35.8 | 34.3 |
| 16.0 m | 38.4 | 35.6 | 32.8 | 28.9 | 27.6 |
| 18.0 m | 32.6 | 30.0 | 27.4 | 23.7 | 22.4 |
| 20.0 m | 27.2 | 24.7 | 22.2 | 18.7 | 17.5 |
| 22.0 m | 22.1 | 19.7 | 17.4 | 14.0 | 12.9 |
| 24.0 m | 17.9 | 15.6 | 13.3 | 10.1 | 9.0 |
| 26.0 m | 14.6 | 12.3 | 10.2 | 7.0 | 6.0 |
| 28.0 m | 11.7 | 9.6 | 7.4 | | |
| 30.0 m | 9.3 | 7.2 | 5.1 | | |
| 32.0 m | 7.3 | 5.2 | | | |
| 34.0 m | 5.5 | | | | |
| Reeves | 4 | 4 | 3 | 3 | 3 |

Note: Ratings according to EN13000.
Ratings shown in [ ] are determined by the strength of the boom or other structural components.
Refer to notes P25 and P26.