

Hydraulic Crawler Crane

KOBELCO

7055 Specifications

Max. lifting capacity: **55** metric tons at **3.7** meters

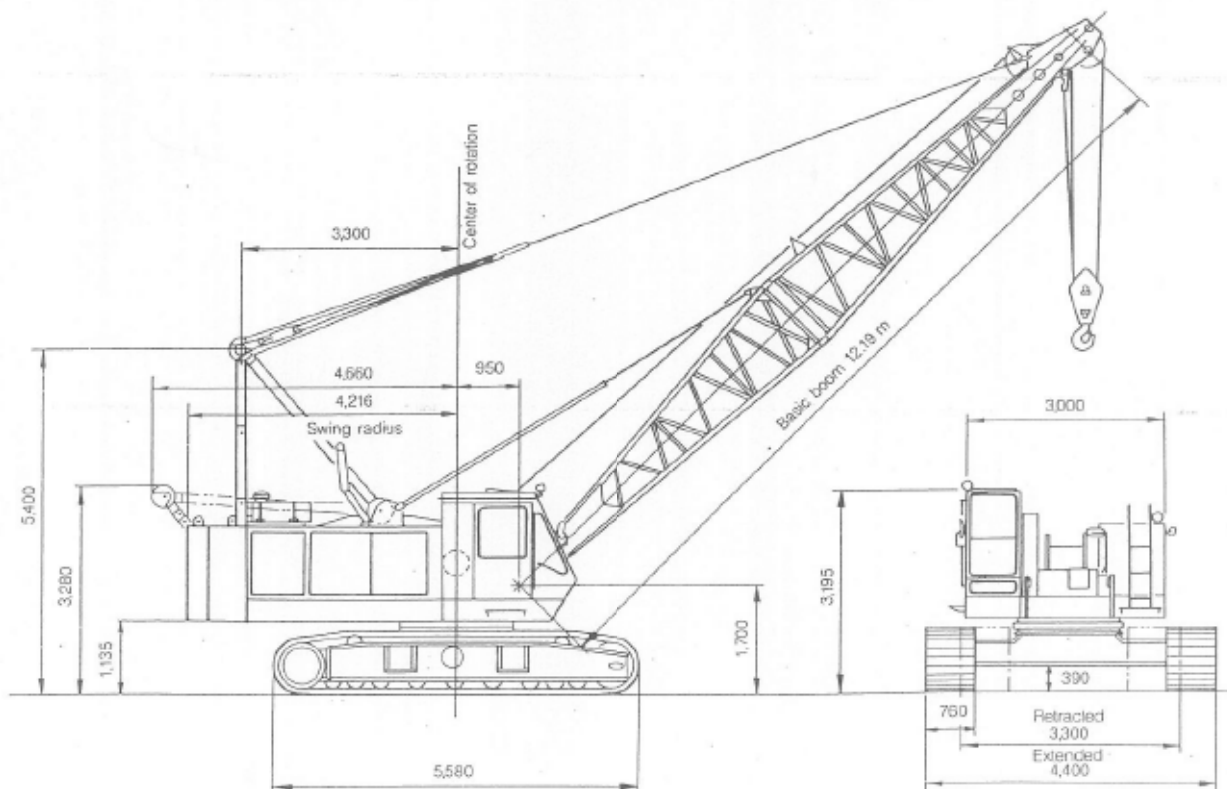
Max. boom length: **51.82** meters

Max. total length (boom + jib): **57.91** meters

- Tough winch that delivers extra lifting power
- Precise speed control for delicate inching operations
- Unrivaled fuel economy through a variable displacement hydraulic system
- Rationalized control layout for greater comfort and efficiency
- Lifetime floating seals and pre-lubricated bearings for maintenance-free operation

General Dimensions

Unit: mm



Bulletin No. 7055SPEC-202

Lifting Capacities

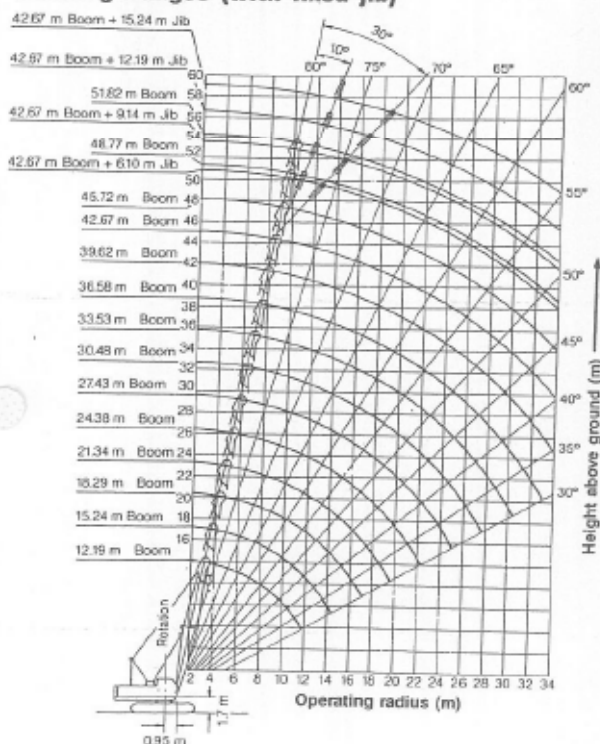
The following points should be kept in mind when interpreting the ratings given below.

1. Operating radius is the horizontal distance from center of rotation to the hoist load line or tackle with load applied.
2. Rated loads do not exceed 75% of tipping loads, and include weights of the load, hook blocks, slings and other lifting devices.
3. Rated loads are for stationary and level cranes lifting a freely suspended load, and have been determined for ideal operating conditions. The user must limit or derate lifted loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, winds, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts and traveling with a load.)
4. Rated loads apply only to upper, lower, boom, jib, auxiliary sheave, and 15,700kg counterweight manufactured by Kobe Steel, Ltd.
5. Boom backstops are required for all boom lengths.
6. Gantry must be in fully raised position for all operations.
7. Crawlers must be fully extended and be locked in position.
8. The crane must be leveled to within 1% on a firm supporting surface.
9. When lifting over boom point with jib or auxiliary sheave, rated loads for the boom must be deducted as shown below.

Jib length	Aux. sheave	6.10m	9.14m	12.19m	15.24m
Deduct-kg	300	900	1,100	1,300	1,500

10. The total load that can be lifted with the jib at any radius is limited by the lower of the following two ratings: 1) the rated jib load, or 2) the rated load at that radius for the boom on which the jib is mounted.
11. When lifting over the boom point with a jib or auxiliary sheave, the combined weight of boom hook block, jib hook block, slings and other lifting devices is part of the total load. Their total weight must therefore be subtracted from the rated load to obtain the weight that can be lifted.
12. Boom lengths for jib mounting are 30.48m to 42.67m.
13. An auxiliary sheave cannot be used on a 51.82m boom.
14. The boom should be erected over the front of the crawlers, not laterally.

Working Ranges (with fixed jib)

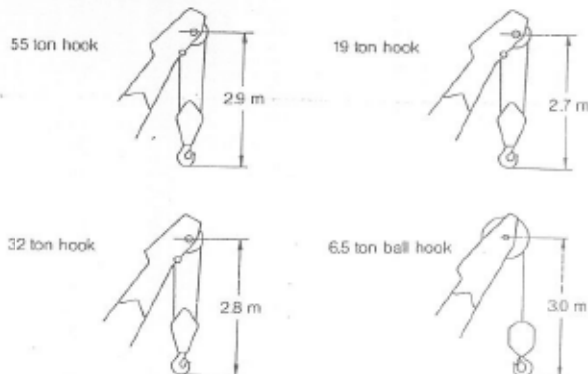


Boom Component Chart

Boom length (m)	Boom component
15.24 (50)	Base-A-Tip
18.29 (60)	Base-A-A-Tip, Base-B-Tip
21.34 (70)	Base-A-B-Tip, Base-C-Tip
24.38 (80)	Base-B-B-Tip, Base-A-C-Tip, Base-A-A-B-Tip
27.43 (90)	Base-B-C-Tip, Base-A-B-B-Tip
30.48 (100)	Base-A-B-C-Tip, Base-C-C-Tip, Base-A-B-A-B-Tip
33.53 (110)	Base-B-B-A-B-Tip, Base-B-B-C-Tip, Base-A-C-C-Tip
36.58 (120)	Base-A-B-B-C-Tip, Base-B-C-C-Tip
39.62 (130)	Base-B-C-A-C-Tip
42.67 (140)	Base-A-B-B-B-C-Tip, Base-B-C-B-C-Tip
45.72 (150)	Base-A-B-B-C-Tip
48.77 (160)	Base-B-B-B-C-Tip
51.82 (170)	Base-B-B-B-A-C-Tip

Base = 6.10 m (20'), Tip = 6.10 m (20')
Inserts : A = 3.05 m (10'), B = 6.10 (20'), C = 9.14 m (30')

Min. Distance between the Hook and the Point Sheave



NOTE: These lengths are recommended for boom and jib angles of 75° or less.

Boom Lifting Capacities

Rated Loads in Metric Tons for 360° Working Area

Unit: ton

Boom length m (ft) Operating radius (m)	12.19 (40)	15.24 (50)	18.29 (60)	21.34 (70)	24.38 (80)	27.43 (90)	30.48 (100)	33.53 (110)	36.58 (120)	39.62 (130)	42.67 (140)	45.72 (150)	48.77 (160)	51.82 (170)	Boom length m (ft) Operating radius (m)
3.7	55.0														3.7
4	50.7	50.6													4
4.5	42.0	41.9	41.9												4.5
5	35.2	35.1	35.1	35.0											5
5.5	30.3	30.2	30.1	30.1	30.0										5.5
6	26.5	26.4	26.4	26.3	26.2	26.1									6
7	21.2	21.1	21.0	20.9	20.8	20.8	20.7	20.6							7
8	17.6	17.5	17.4	17.3	17.3	17.2	17.1	17.0	17.0	16.7					8
9	15.0	14.9	14.8	14.7	14.6	14.5	14.5	14.4	14.3	14.3	14.2				9
10	13.1	12.9	12.8	12.7	12.7	12.6	12.5	12.4	12.4	12.3	12.2	12.1	12.1		10
12	10.7*	10.2	10.1	10.0	9.9	9.8	9.7	9.6	9.6	9.5	9.4	9.3	9.3	9.2	12
14		8.3	8.2	8.1	8.0	7.9	7.8	7.7	7.7	7.6	7.5	7.4	7.4	7.3	14
16			6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.2	6.1	6.1	5.9	16
18				5.8	5.7	5.6	5.5	5.4	5.3	5.2	5.1	5.1	5.0	4.9	18
20				5.2	4.9	4.8	4.7	4.6	4.5	4.4	4.3	4.3	4.2	4.1	20
22					4.3	4.2	4.1	4.0	3.9	3.8	3.7	3.6	3.6	3.5	22
24						3.7	3.6	3.5	3.4	3.3	3.2	3.1	3.1	3.0	24
26							3.2	3.0	3.0	2.9	2.8	2.7	2.6	2.5	26
28								2.7	2.6	2.5	2.4	2.3	2.3	2.2	28
30								2.4	2.3	2.2	2.1	2.0	1.9	1.8	30
32									2.0	1.9	1.8	1.7	1.6	1.5	32
34										1.7	1.6	1.5	1.4	1.2	34

This figure applies to an operating radius of 11.6m.

Fixed Jib Lifting Capacities

Jib Rated Loads in Metric Tons for 360° Working Area

Unit: ton

Operating radius m (feet)	19.82m (65') Boom														Operating radius m (feet)										
	Offset Angle							Offset Angle																	
	10°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°	195°	210°											
8	6.5															8									
10	6.5	6.5	6.5					6.5*					6.5*	6.5		10									
12	6.5	6.5	6.5	6.0	6.0		5.2	6.5	6.5	6.5		5.2	6.5	6.5	6.0	5.2	12								
16	6.5	6.5	6.5	6.0	6.0	4.3**	5.2	3.7	6.4	6.4	6.4	6.0*	6.0	4.3	5.2		16								
18	5.5	5.5	5.5	5.5	5.5	4.3	5.2	3.7	5.4	5.4	5.4	5.4	4.3	5.2	3.7	5.3	5.3	5.3	5.3	4.3	5.2	3.7	18		
20	4.7	4.7	4.7	4.7	4.7	4.3	4.7	3.7	4.6	4.6	4.6	4.6	4.3	4.6	3.7	4.5	4.5	4.5	4.5	4.5	4.3	4.5	3.7	20	
22	4.1	4.1	4.1	4.1	4.1	4.1	4.1	3.7	4.0	4.0	4.0	4.0	4.0	4.0	3.7	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.7	22	
24	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	24	
26	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	26	
28									2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	28
30									2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	30
32																2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	32

Operating radius m (feet)	12.5m (40') Boom														Operating radius m (feet)		
	Offset Angle							Offset Angle									
	10°	30°	45°	60°	75°	90°	105°	120°	135°	150°	165°	180°	195°	210°			
10	6.5																10
12	6.5	6.5	6.5					6.5	6.5	6.5		6.0					12
16	6.2	6.2	6.2	6.0**	6.0	4.3	5.2**		6.2	6.2	6.2	6.0**	6.0	4.3	5.2**		16
18	5.2	5.2	5.2	5.2	5.2	4.3	5.2	3.7	5.1	5.1	5.1	5.1	5.1	4.3	5.1	3.7	18
20	4.4	4.4	4.4	4.4	4.4	4.3	4.4	3.7	4.3	4.3	4.3	4.3	4.3	4.3	4.3	3.7	20
22	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	22
24	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	24
26	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	26
28	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	28
30	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	30
32	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	32
34	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	34

* This figure applies to an operating radius of 9m.

** This figure applies to an operating radius of 14m.

* This figure applies to an operating radius of 9m.

** This figure applies to an operating radius of 14m.