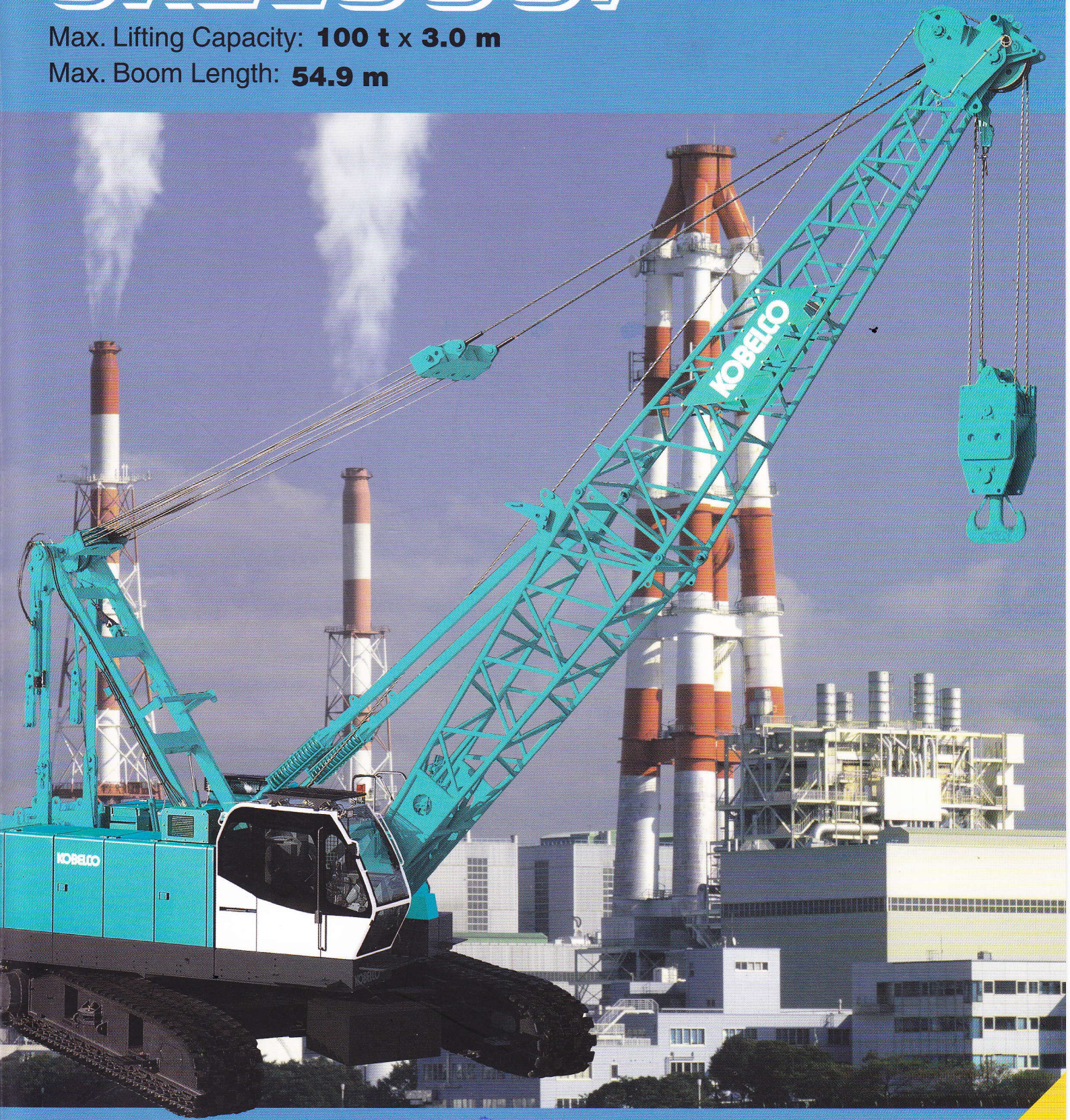
KOBELCO

HYDRAULIC CRAWLER CRANE

CKL1000i

Max. Lifting Capacity: **100 t** x **3.0 m**

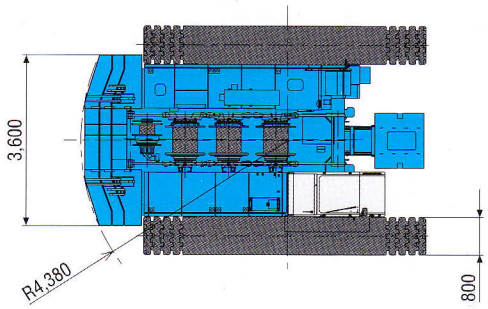
Max. Boom Length: **54.9 m**

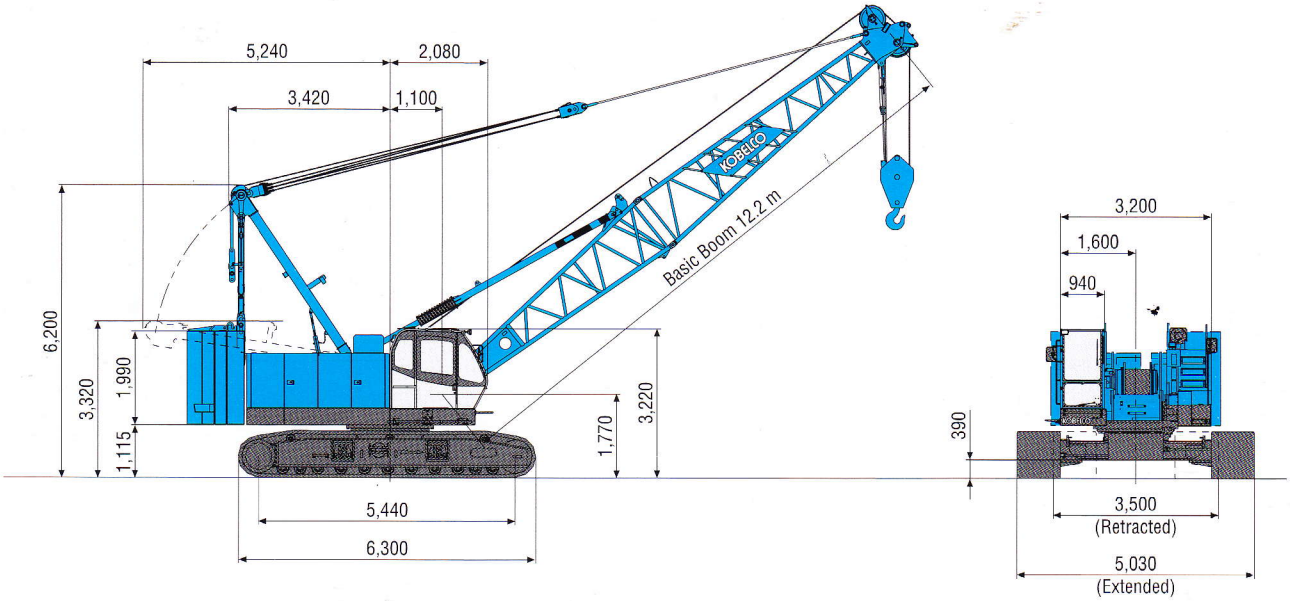


KOBELCO CRANES INDIA PVT. LTD.

India

General Dimensions (Unit: mm)





Boom Configuration

Symbol	Boom Length	Remarks
B	5.8 m	Boom Base
T	6.4 m	Boom Top
10	3.0 m	Insert Boom
20	6.1 m	Insert Boom
40	12.2 m	Insert Boom
40A	12.2 m	Insert Boom with lug

Specifications

Main Specifications (Model: CKL1000i)

Crane Boom	
Max. Lifting Capacity	100 t / 3.0 m***
Max. Length	54.9 m
Fixed Jib	
Max. Lifting Capacity	10.9 t / 18.0 m
Max. Length	18.3 m
Max. Combination	51.8 m + 18.3 m
Main & Aux. Winch	
Max. Line Speed	120 m/min
Rated Line Pull (Single Line)	122 kN {12.5 tf}
Wire Rope	26.0 mm dia.
Wire Rope Length	235 m
Brake Type	Wet-type multiple disc brake
Working Speed	
Swing Speed	4.0 min^{-1} {4.0 rpm}
Travel Speed	1.9/1.2 km/h

Power Plant	
Model	Hino P11C-UN
Engine Output	247 kW/2,000 min^{-1} {rpm}
Fuel Tank Capacity	400 liters
Hydraulic System	
Main Pumps	3 variable displacement
Max. Pressure	31.9 MPa {325 kgf/cm^2}
Hydraulic Tank Capacity	440 liters
Self-Removal Device	Standard counterweight removal
Weight	
Operating Weight*	Approx. 84.0 t
Ground Pressure	89.0 kPa
Counterweight	29.3 t (Upper), 7.3 t (Lower)
Transport Weight**	Approx. 44.7 t

Units are SI units. { } indicates conventional units.

* Including upper and lower machine, counterweight, carbody weight, 12.2 m boom, 100 t hook block, and other accessories.

** Base machine with gantry, boom base, crawlers, wire ropes for main and aux. winches, lower spreader and upper spreader.

***Auxiliary sheave is necessary.

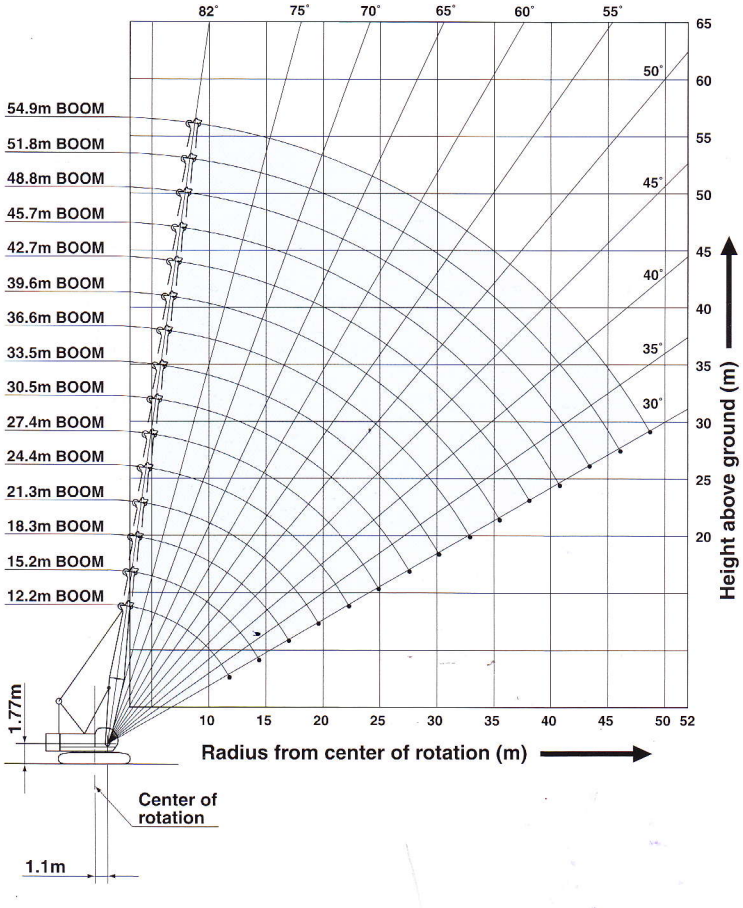
Crane Boom Lifting Capacity

Unit: metric tons

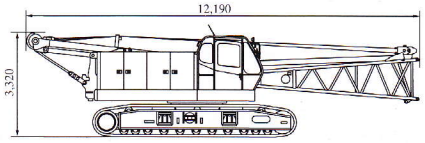
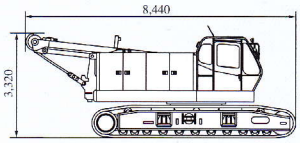
Working radius (m) \ Boom length (m)	12.2	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	51.8	54.9	Boom length (m) / Working radius (m)
3.0	100.0	3.4m/90.0														3.0
4.0	86.5	86.4	86.2	4.3m/75.0	4.7m/65.4											4.0
5.0	70.1	69.9	68.2	64.8	61.5	5.1m/49.2	5.6m/47.9									5.0
6.0	53.0	52.8	52.7	50.3	48.2	46.3	44.4	42.6	6.4m/37.3	6.8m/34.8						6.0
7.0	45.6	45.4	44.0	42.2	40.6	39.2	37.8	36.5	35.3	34.1	7.3m/31.7	7.7m/28.0				7.0
8.0	38.1	38.3	37.7	36.3	35.1	34.0	32.8	31.8	30.8	29.8	28.9	27.8	8.3m/21.9	8.5m/19.2		8.0
9.0	32.1	32.5	32.4	31.8	30.8	29.9	28.9	28.1	27.3	26.5	25.7	25.0	20.8	18.6	9.1m/16.2	9.0
10.0	27.1	28.1	28.0	27.9	27.4	26.7	25.8	25.1	24.5	23.8	23.1	22.5	19.5	17.4	15.2	10.0
12.0	11.8m/19.6	22.1	22.0	21.8	21.7	21.7	21.2	20.7	20.2	19.6	19.1	18.6	17.3	15.4	13.3	12.0
14.0		17.1	18.0	17.9	17.7	17.7	17.5	17.4	17.1	16.6	16.1	15.8	15.4	13.8	11.9	14.0
16.0		14.4m/16.1	15.2	15.0	14.9	14.8	14.7	14.6	14.5	14.3	13.9	13.6	13.3	12.4	10.7	16.0
18.0			17.0m/13.4	12.9	12.8	12.7	12.5	12.5	12.4	12.2	12.1	11.9	11.6	11.4	9.7	18.0
20.0				19.6m/11.3	11.2	11.1	10.9	10.8	10.7	10.6	10.4	10.4	10.3	10.0	8.9	20.0
22.0					9.9	9.8	9.6	9.5	9.4	9.3	9.1	9.0	9.0	8.9	8.1	22.0
24.0					22.3m/9.7	8.7	8.5	8.4	8.3	8.2	8.1	8.0	7.9	7.8	7.5	24.0
26.0						24.9m/8.3	7.6	7.6	7.5	7.3	7.2	7.1	7.0	6.9	6.8	26.0
28.0							27.6m/7.1	6.8	6.7	6.6	6.4	6.3	6.3	6.1	6.0	28.0
30.0								6.2	6.1	5.9	5.8	5.7	5.6	5.5	5.4	30.0
32.0								30.2m/6.1	5.5	5.4	5.2	5.1	5.1	4.9	4.8	32.0
34.0									32.9m/5.3	4.9	4.7	4.7	4.6	4.4	4.3	34.0
36.0										35.5m/4.6	4.3	4.2	4.1	4.0	3.9	36.0
38.0											4.0	3.9	3.8	3.6	3.5	38.0
40.0											38.1m/3.9	3.5	3.4	3.3	3.1	40.0
42.0												40.8m/3.4	3.1	3.0	2.8	42.0
44.0													43.4m/2.9	2.7	2.6	44.0
46.0														2.4	2.3	46.0
48.0														46.1m/2.4	2.0	48.0
50.0															48.7m/1.9	50.0
52.0																52.0

Note:
Ratings according to EN13000. (Ratings 75% tipping load)
Ratings shown in [ ] are determined by the strength of the boom or other structural components.

Working Range



Transportation Plan

Name	Dimension mm	Weight kg
Base Machine (1) • Boom base • Gantry • Crawler • Wire rope (Front / boom hoist) • Lower and upper spreader		44,700
Base Machine (2) • Gantry • Crawler • Wire rope (Front / boom hoist)		42,460

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 inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Boom hoist reeving is 12 part line.
10. Gantry must be in raised position for all conditions.
11. Boom backstops are required for all boom lengths.
12. Crawler frames must be fully extended for all crane operations.
13. Ratings shown in [ ] are determined by the strength of the boom or other structural component.
14. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
15. Crane boom ratings: Deduct weight of main hook block, slings, and all other load handling accessories from crane boom ratings shown.
16. Auxiliary sheave ratings for crane boom: Deduct weight of ball hook, slings, and all other load handling accessories from auxiliary sheave ratings for crane boom shown.