



HYDRAULIC CRAWLER CRANE

KOBELCO

CKE900

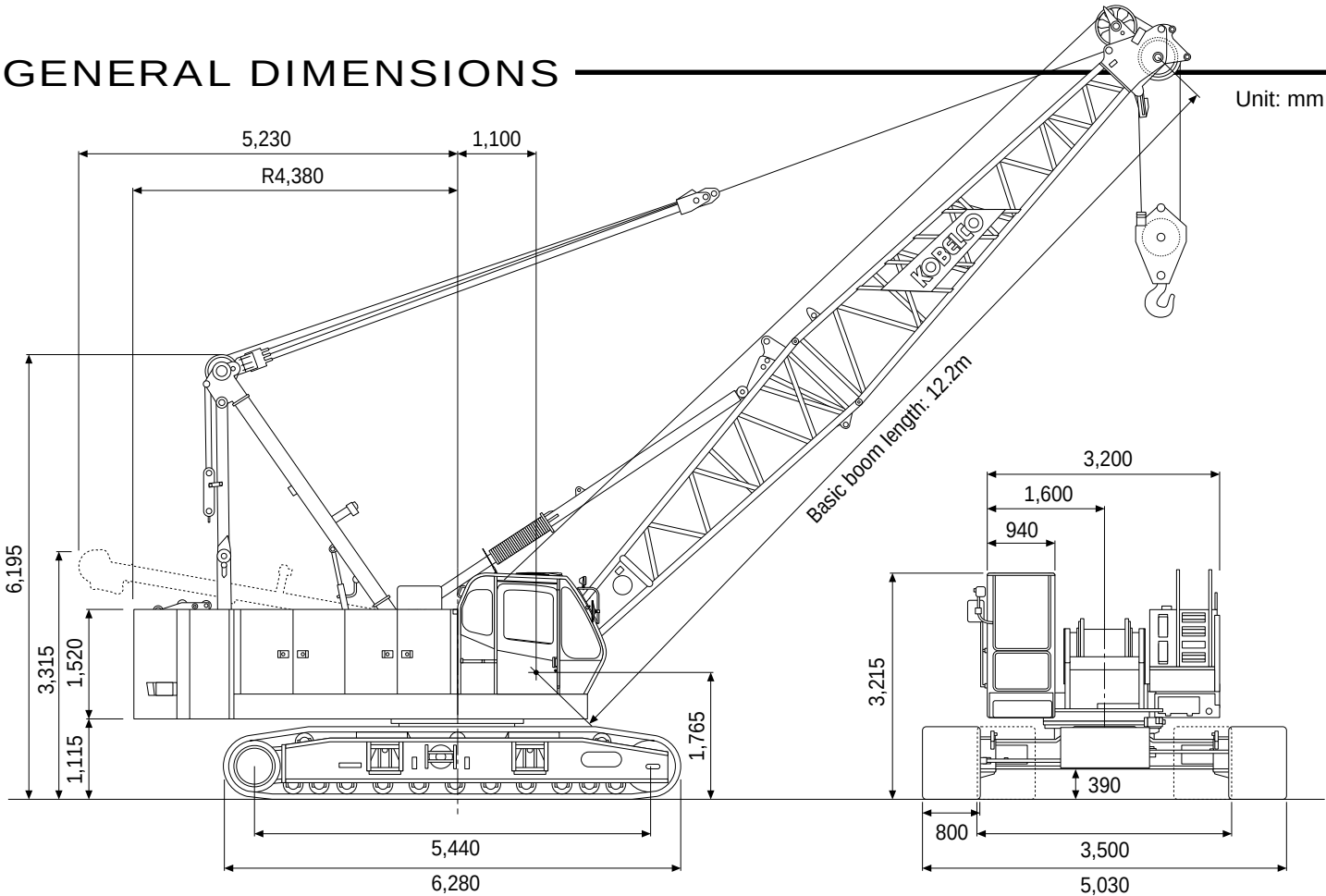
Max. Lifting Capacity: 90 t
Max. Boom Length: 61.0 m
Max. Fixed Jib Combination:
57.9 + 18.3 m

S P E C I F I C A T I O N S

Main Boom	
Max. Lifting Capacity	90 t /3.0 m
Max. Length	61.0 m
Fixed Jib	
Max. Lifting Capacity	10.8 t
Max. Length	18.3 m
Max. Combination	57.9 m + 18.3 m
Main & Aux. Winch	
Max. Line Speed	120 m/min (1st layer)
Rated Line Pull	111.8 kN (11.4 tf)
Max. Line Pull (Approx.)	196 kN (20 tf)
Wire Rope	25 mm
Wire Rope Length	235 m (Main) 160 m (Aux.)
Brake Type	Wet-type multi-disc brake
Free-Fall	Option
Working Speed	
Swing Speed	4.0 min ⁻¹ (rpm)
Travel Speed	1.9/1.2 km/h

Power Plant	
Model	Mitsubishi 6D24-TLU2D
Engine Output	235 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	450 liters
Self-Erection Device	
Standard counterweight removal	
Weight	
Operating Weight	Approx. 80.6 t
Counterweight	28.8 t (upper), 6.7 t (lower)
Transport Weight	44.7 t (Main machine with crawler and lower boom)
Ground Pressure	85 kPa (0.87 kgf/cm ²)

GENERAL DIMENSIONS



KOBELCO CRANES CO., LTD.



MAIN BOOM LIFTING CAPACITY

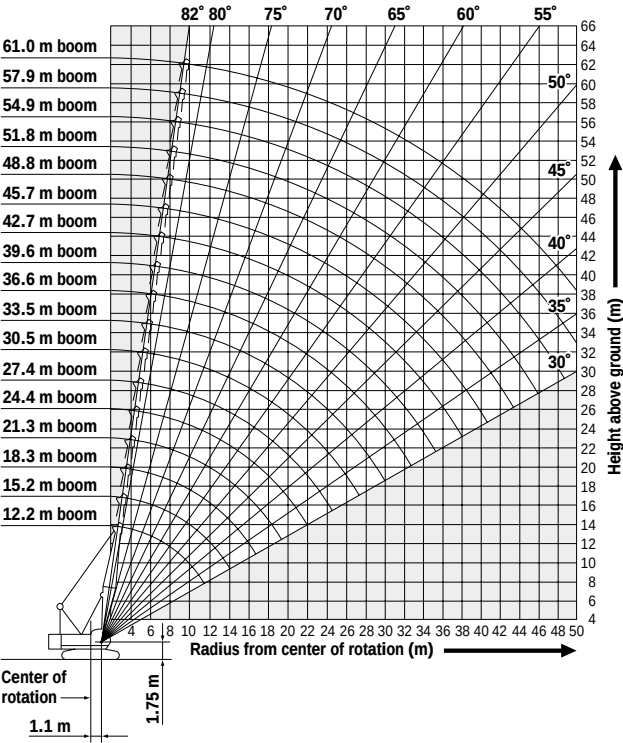
Rated loads in metric tons for 360° working area (Counterweight: 28.8 t, Carbody weight: 6.7 t)

Crawlers fully extended

Boom length m (ft)		12.2 (40)	15.2 (50)	18.3 (60)	21.3 (70)	24.4 (80)	27.4 (90)	30.5 (100)	33.5 (110)	36.6 (120)	39.6 (130)	42.7 (140)	45.7 (150)	48.8 (160)	51.8 (170)	54.9 (180)	57.9 (190)	61.0 (200)
Working radius (m)	3.0	3.0/90.0	3.4/90.0	3.9/72.4														
	4.0	78.0	77.8	72.4	4.3/72.4	4.7/60.9												
	5.0	63.2	63.0	62.8	62.1	59.0	5.1/49.2	5.6/47.9										
	6.0	53.0	52.8	52.7	50.3	48.2	46.3	44.4	6.0/42.6	6.4/37.3	6.8/34.8							
	7.0	45.6	45.4	44.0	42.2	40.6	39.2	37.8	36.5	35.3	34.1	7.3/31.7	7.7/29.1					
	8.0	38.1	38.3	37.7	36.3	35.1	34.0	32.8	31.8	30.8	29.8	28.9	28.0	8.1/23.4	8.5/18.5			
	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	22.3	18.1	9.0/14.0	9.4/9.4	9.8/6.4
	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	21.2	17.1	13.2	9.0	6.3
	12.0	11.8/19.6	22.1	22.0	21.8	21.7	21.7	21.2	20.7	20.2	19.6	19.1	18.6	18.2	15.4	11.8	7.9	5.5
	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	14.0	10.6	7.0	4.7
	16.0		14.4/16.1	15.2	15.0	14.9	14.8	14.7	14.6	14.5	14.3	13.9	13.6	13.3	12.9	9.6	6.3	4.1
	18.0			17.0/13.4	12.9	12.8	12.7	12.5	12.5	12.4	12.2	12.1	11.9	11.6	11.3	8.8	5.6	3.5
	20.0				19.6/11.3	11.2	11.1	10.9	10.8	10.7	10.6	10.4	10.4	10.3	10.0	8.0	5.0	3.0
	22.0					9.9	9.8	9.6	9.5	9.4	9.3	9.1	9.0	9.0	8.9	7.3	4.5	2.6
	24.0					22.3/9.7	8.7	8.5	8.4	8.3	8.2	8.1	8.0	7.9	7.8	6.7	4.0	2.2
	26.0						24.9/8.3	7.6	7.6	7.5	7.3	7.2	7.1	7.0	6.9	6.2	3.5	1.8
	28.0							27.6/7.1	6.8	6.7	6.6	6.4	6.3	6.3	6.1	5.7	3.1	1.5
	30.0								6.2	6.1	5.9	5.8	5.7	5.6	5.5	5.2	2.8	30.0/1.2
	32.0								30.2/6.1	5.5	5.4	5.2	5.1	5.1	4.9	4.8	2.4	
	34.0									32.9/5.3	4.9	4.7	4.7	4.6	4.4	4.3	2.1	
	36.0										35.5/4.6	4.3	4.2	4.1	4.0	3.9	1.8	
	38.0											4.0	3.9	3.8	3.6	3.5	1.5	
	40.0											38.1/3.9	3.5	3.4	3.3	3.1	1.3	
	42.0												40.8/3.4	3.1	3.0	2.8	42.0/1.0	
	44.0													43.4/2.9	2.7	2.6		
	46.0														2.4	2.3		
	48.0														46.1/2.4	2.0		
	50.0															48.7/1.9		

Note: 1. Rating according to DIN 15018/3 and prEN 13000.
2. Rating shown in are determined by the strength of the boom or other structural components.
3. Instruction in the operator's manual must be strictly observed when operating the machine.

WORKING RADIUS



FIXED JIB LIFTING CAPACITY

PRELIMINARY

Rated loads in metric tons for 360° working area (Jib offset angle: 10°)

Boom length		24.4 m		42.7 m		57.9 m	
Jib length		9.1 m	18.3 m	9.1 m	18.3 m	9.1 m	18.3 m
Working radius (m)	10.0 m	10.4					
	12.0 m	10.4					
	14.0 m	10.4	7.8	10.4			
	16.0 m	10.4	7.4	10.4		8.4	
	18.0 m	10.4	6.6	10.4	7.8	8.1	
	20.0 m	9.9	5.9	9.2	7.7	7.9	7.8
	22.0 m	8.7	5.4	8.0	7.0	7.5	7.6
	24.0 m	7.7	4.9	7.1	6.5	6.6	6.9
	26.0 m	6.9	4.5	6.3	6.0	5.9	6.1
	28.0 m	6.3	4.2	5.6	5.6	5.1	5.4
	30.0 m	5.7	3.9	5.0	5.2	4.6	4.8
	32.0 m		3.7	4.5	4.7	4.1	4.3
	34.0 m		3.5	4.1	4.3	3.6	3.8
	36.0 m		3.3	3.7	3.9	3.2	3.4
	38.0 m		3.1	3.4	3.5	2.9	3.0
	40.0 m			3.1	3.2	2.6	2.7
	42.0 m			2.8	2.9	2.2	2.4
	44.0 m			2.4	2.7	1.9	2.1
	46.0 m				2.4	1.7	1.8
	48.0 m					2.2	1.6
	50.0 m					1.9	1.4
	52.0 m					1.7	



BOOM & JIB ARRANGEMENT

CKE900

BOOM ARRANGEMENT CHART

Boom length m (ft)	Boom arrangement
12.2 (40)	Base-Tip
15.2 (50)	Base-A-Tip
18.3 (60)	Base-A-A-Tip, Base-B-Tip
21.3 (70)	Base-A-B-Tip
24.4 (80)	Base-A-A-B-Tip, Base-C-Tip, Base-B-B-Tip
27.4 (90)	Base-A-B-B-Tip, Base-A-C-Tip
30.5 (100)	Base-A-A-B-B-Tip, Base-A-A-C-Tip, Base-B-C-Tip
33.5 (110)	Base-A-B-C-Tip
36.6 (120)	Base-A-A-B-C-Tip, Base-C-C-Tip, Base-B-B-C-Tip
39.6 (130)	Base-A-B-B-C-Tip, Base-A-C-C-Tip
42.7 (140)	Base-A-A-B-B-C-Tip, Base-A-C-C-Tip, Base-B-C-C-Tip
45.7 (150)	Base-A-B-C-C-Tip
48.8 (160)	Base-A-A-B-C-C-Tip, Base-B-B-C-C-Tip, Base-C-C-C-Tip
51.8 (170)	Base-A-B-B-C-C-Tip, Base-C-C-C-Tip
54.9 (180)	Base-A-A-B-B-C-C-Tip, Base-A-A-C-C-C-Tip, Base-B-C-C-C-Tip
57.9 (190)	Base-A-B-C-C-C-Tip
61.0 (200)	Base-A-A-B-C-C-C-Tip

Base = 0.0 m (00'), Tip = 0.0 m (00')
Inserts: A = 3.05 m (10'), B = 6.1 m (20'), C = 12.2 m (40')

JIB ARRANGEMENT CHART

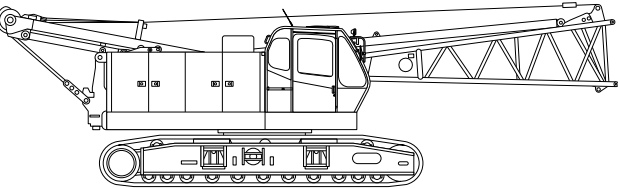
Jib length m (ft)	Jib arrangement
0.0 (30)	Base-Tip
12.2 (40)	Base-A-Tip
15.2 (50)	Base-B-Tip
18.3 (60)	Base-A-B-Tip

Base = 0.0 m (00'), Tip = 0.0 m (00')
Inserts: A = 3.05 m (10'), B = 6.1 m (20')

SPECIFICATIONS OF PARTS AND ATTACHMENTS

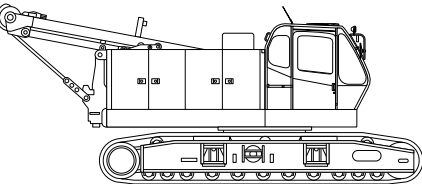
Base Machine + Boom Base + Crawlers

Weight: 45,250 kg
Dimensions: 3,450 mm height x 3,610 mm width x 12,170 mm length

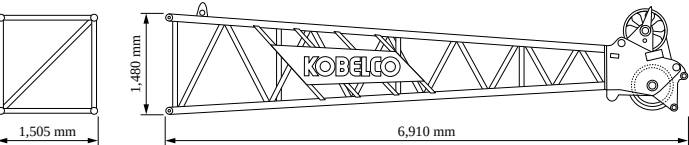


Base Machine + Crawlers

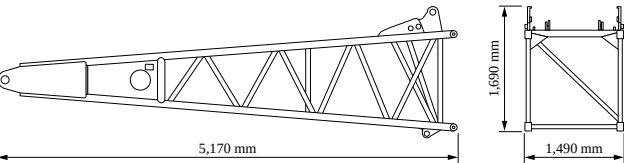
Weight: 43,900 kg
Dimensions: 3,450 mm height x 3,610 mm width x 8,410 mm length



Upper Boom

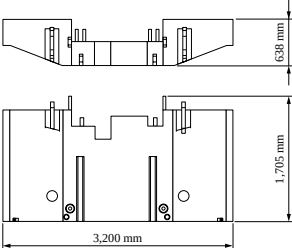


Lower Boom

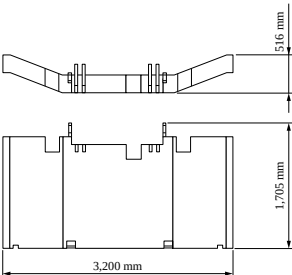


Counterweight

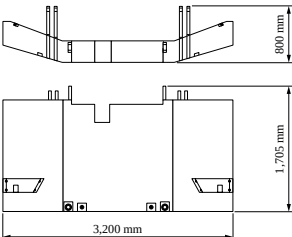
No.1 Counterweight
Weight: 12,070 kg



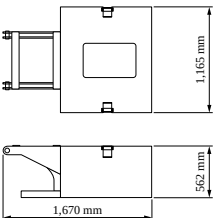
No.2 Counterweight
Weight: 7,373 kg



No.3 Counterweight
Weight: 9,347 kg



Carbody Counterweight
Weight: 3,340 kg (1 pc)





CKE900

SPECIFICATIONS OF PARTS AND ATTACHMENTS

OTHER ATTACHMENT

Attachment	Weight	Dimensions (L x W x H)
10 ft Insert Boom	310 kg	1,290 mm x 1,490 mm x 3,165 mm
20 ft Insert Boom	520 kg	1,290 mm x 1,490 mm x 6,210 mm
40 ft Insert Boom	960 kg	1,290 mm x 1,490 mm x 12,305 mm
Jib Tip	280 kg	790 mm x 790 mmv 4,960 mm
Jib Base	200 kg	790 mm x 790 mm x 4,810 mm
10 ft Insert Jib	100 kg	790 mm x 790 mm x 3,120 mm
20 ft Insert Jib	180 kg	790 mm x 790 mm x 6,160 mm
Jib Strut	250 kg	620 mm x 840 mm x 3,620 mm
Upper Spreader	270 kg	680 mm x 270 mm x 1,580 mm
90 t hook block	1,300 kg	1,890 mm x 700 mm x 530 mm
70 t hook block	900 kg	1,820 mm x 700 mm x 384 mm
35 t hook block	700 kg	1,575 mm x 700 mm x 470 mm
11 t ball block	450 kg	1,200 mm x 380 mm x dia.

Note: Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.



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