JOHNSON CRANE HIRE LTD.







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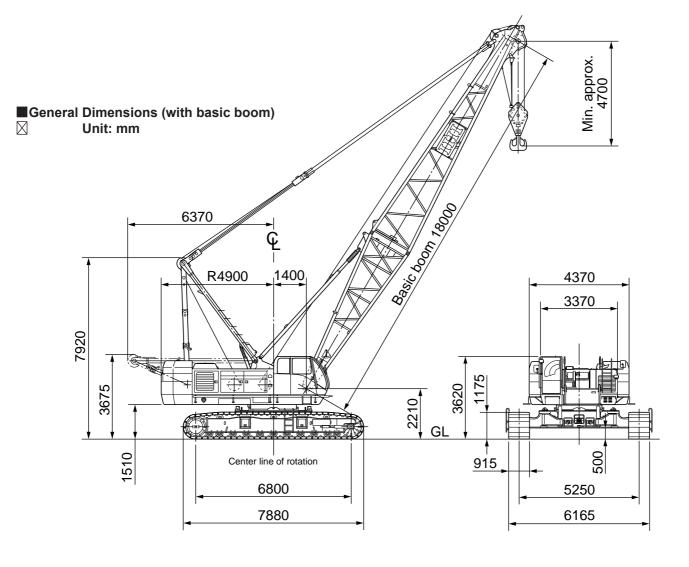
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JOHNSON CRANE

HIRE

LTD

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■Specifications

Performance	
Swing speed	2.2 rpm
Travel speed	*1.5/1.0 km/h (0.93/0.62 mph)
Gradeability	30% (Approx. 16.7° with 18m Boom and 120ton
Gradeability	hook block)
Engine	
Make	HINO MOTOR
Model	K13C-UV (with turbo) diesel engine 4-cycle, water
Wodel	cooled, overhead valve
Type	Direct injection diesel engine
Total piston displacement	12.882 L
Rated output	320 PS/2000 rpm
Fuel tank capacity	450 L
Battery	12 V x 150 AH x 2 pcs.
Load hoist system (Mai	n and Aux.)
Hydraulic motor	Variable displacement axial piston type
Reduction gear	Two-stage planetary gear and single stage spur gear
Hoist drum	Tandem drums driven independently by hydraulic
Clutch	motor, lagging type with lebus grooved drum.
Brake	Internal expanding band type
	External contracting type
Drum lock	Ratchet lock
Hydraulic pump	Variable displacement axial piston type x 2
	Gear pump x 3
Boom hoist system	
Motor	Axial piston type
Reduction gear	One stage planetary gear + One stage spur gear
Hoist drum	Lebus grooved drum
Brake	Automatic spring-loaded hydraulically released
Diano	wet type multi-disk
Drum lock	Ratchet lock

[|] Ratchet lo *Travel speed changes depending on the load

■Standard Equipment

· Instrument for crane

Engine tacho meter (Hour meter) Hydraulic oil pressure gauge (for control circuit)

Fuel level gauge

Engine coolant thermo indicator indicated bar graph in Engine oil pressure indicator Hydraulic oil thermo indicator OK monitor

■ghting for crane

2-Work light (24v x 80w)

1-Room light (24v x 10w)

· Safety device

Automatic stop for hook overwinding Automatic stop for boom overwinding Telescopic boom limit stop Swing lock

Main and auxiliary drum lock

Boom hoist drum lock

2nd. boom stop device (82° non-resetable)

Clutch engage pin on main and auxiliary

winch Safety valve for hydraulic circuit

Counter balance valve

Control lever locking device Other standard accessories

Front windshield wipers

(intermittent, w/washer)

Roof wipers (intermittent, w/washer)

Sunvisor

Sun shade

Strage pouch

Reclining operator's seat Floor mat

Jack device for dismantling Lateral cylinders for dismantling crawler Steps for operator's cab

Radio Cigarette lighter

Ash tray

Large rear view mirrors (right/left) Signal horn

Electric fuel filling pump

Swing warning flasher Travel warning flasher

High "A" frame erecting device

Low-noise cab Bronze tinted glass Wire mesh boom workway

(for inner boom)

Foot rest

Electric type engine throttle Foot pedal-type engine throttle

Automatic engine deceleration Ultra low speed control

Hydraulic assist brake for main and

aux. winch

Winch mode selector for main and aux. winch

Rope guide roller on outer boom

Plug socket Loud speaker

Emergency engine stop switch

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■Specifications

Max. Lifti	ng capacity x working radius	120 metric tons x 5.0m
Max. boo	m length	75m
Max. boo	m length, (main + jib)	88m (63m boom+25m jib)
D	Main drum hoist/lowering	*100~50/50~25 m/min
Rope speed	Aux. drum hoist/lowering	*100~50/50~25 m/min
эрсси	Boom drum hoist/lowering	*60~30 m/min
	Hook block capacity x Part line	120ton x 10
Part line	Hook block capacity x Part line	11ton x 1
	Boom drum hoist/lowering part line	14
Counterv	veight	50ton
Total ope	rating weight (with 18m boom)	121.5ton (Approx.)
Average	ground bearing pressure	0.92kgf/cm ²

^{*}The rope speed changes depending on the load

■ Combination of Boom and Jib (: Available combination)

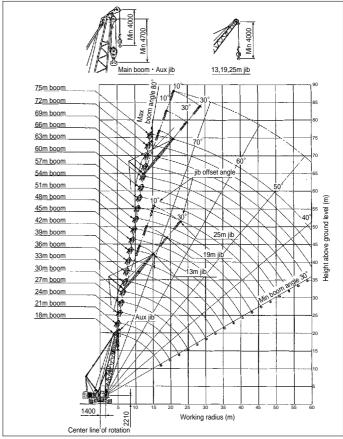
		, -																
Jib length	Boom length (m)																	
(m)	18-24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75
Auxiliary																		
13		D																
19		\triangleright																
25																		

■Wire rope

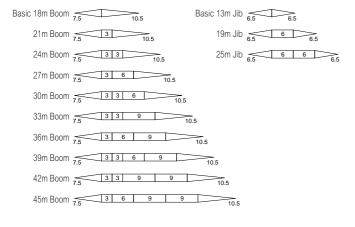
Place of use	Rope diameter (mm)	Guaranteed strength (ton)	Rope type
Load hoist	⊠ φ 26	61.0	Α
Boom hoist	φ 22	36.3	В
Boom suspension	Ø φ31.5	74.9	С
Jib load hoist	⊠ φ 26	61.0	Α
Jib Boom suspension	φ 28	59.3	С
Jib strut suspension	Ø φ28	59.3	С

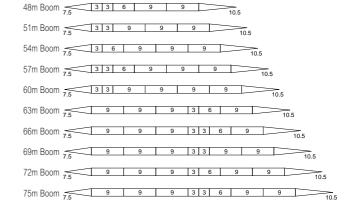
Rope type A: PS(19)+39 x P•7 B: IWRC 6 x WS(31) C: IWRC 6 x Fi(29)

■Working range (No load condition)



■Boom & Jib combination





Note: 1. Compositions shown are for maximum length at time of delivery.
2. Required middle suspension for boom length 63m and longer.
3. Boom can be converted into a post for tower crane operation by replacing top section.

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■ Main boom rated lifting loads

(Unit:metric ton)

Boom length (m)	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0
Working radius (m)					00.0	00.0	00.0	00.0			.0.0	0.110	00	0.10	00.0	00.0	00.0	00.0	12.0	10.0
5.0	120.0																			
5.5	106.7	90.0																		
6.0	97.0	90.0	80.0	70.0																
7.0	83.3	81.2	75.0	7.2m x 70.0	7.1m x 60.0	7.6m x 50.0														
8.0	71.7	71.5	67.5	64.0	60.0	50.0	8.1m x 50.0	8.6m x 40.0												
9.0	60.6	60.0	59.7	57.5	54.1	9.5m x 50.0	50.0	40.0	9.2m x 40.0	9.7m x 40.0										
10.0	51.8	51.6	51.5	51.0	48.8	47.4	46.0	11.3m x 40.0	11.2m x 40.0	11.0m x 40.0	10.2m x 30.0	10.7m x 30.0	11.2m x 28.3	11.8m x 28.1						
12.0	40.6	40.4	40.3	40.2	40.0	39.2	38.4	37.8	37.5	37.1	30.0	30.0	28.3	28.1	12.3m x 20.0	12.8m x 20.0	13.3m x 19.0	13.8m x 16.0		
14.0	32.9	32.7	32.6	32.5	32.3	32.2	32.1	31.9	31.8	31.7	14.1m x 30.0	30.0	28.3	28.1	20.0	20.0	19.0	16.0	14.4m x 14.5	14.9m x 13.0
16.0	27.6	27.4	27.3	27.2	27.0	26.9	26.8	26.6	26.5	26.4	26.3	26.2	25.1	24.9	20.0	17.4m x 20.0	19.0	16.0	14.5	13.0
18.0	17.2m x 25.1	23.4	23.3	23.2	23.0	22.9	22.8	22.6	22.5	22.4	22.3	22.2	22.0	21.9	20.0	19.2	17.9	16.0	14.5	13.0
20.0		19.7m x 20.8	20.2	20.1	19.9	19.8	19.7	19.5	19.4	19.3	19.2	19.1	18.9	18.8	18.2	17.5	16.7	15.2	13.6	11.6
22.0			17.8	17.7	17.5	17.4	17.3	17.1	17.0	16.9	16.8	16.7	16.5	16.4	16.3	15.8	15.3	14.2	12.6	10.4
24.0			22.3m x 17.5	15.8	15.6	15.5	15.4	15.2	15.1	15.0	14.9	14.8	14.6	14.5	14.4	14.2	13.8	13.0	11.6	9.4
26.0				24.9m x 15.0	13.9	13.8	13.7	13.5	13.4	13.3	13.2	13.1	12.9	12.8	12.7	12.5	12.3	11.9	10.5	8.4
28.0					27.5m x 12.9	12.5	12.4	12.2	12.1	12.0	11.9	11.8	11.6	11.5	11.4	11.2	11.0	10.9	9.6	7.6
30.0						11.3	11.2	11.0	10.9	10.8	10.7	10.6	10.4	10.3	10.2	10.0	9.8	9.7	8.7	6.9
32.0						30.1m x 11.2	10.2	10.0	9.9	9.8	9.7	9.6	9.4	9.3	9.2	9.0	8.8	8.6	7.8	6.2
34.0							32.7m x 9.9	9.1	9.0	8.9	8.8	8.7	8.5	8.4	8.3	8.1	7.9	7.6	7.1	5.5
36.0								35.3m x 8.6	8.2	8.1	8.0	7.9	7.7	7.6	7.5	7.3	7.1	6.7	6.4	5.0
38.0									37.9m x 7.6	7.4	7.3	7.2	7.0	6.9	6.8	6.6	6.4	5.9	5.7	4.4
40.0										6.8	6.7	6.6	6.4	6.3	6.2	6.0	5.8	5.2	5.0	3.9
42.0										40.5m x 6.7	6.2	6.1	5.9	5.8	5.7	5.5	5.3	4.6	4.4	3.5
44.0											43.1m x 5.9	5.6	5.4	5.3	5.2	5.0	4.8	4.2	3.9	3.0
46.0												45.7m x 5.2	4.9	4.8	4.7	4.5	4.3	3.7	3.4	2.6
48.0													4.5	4.4	4.3	4.1	3.8	3.2	2.9	2.2
50.0													48.3m x 4.5	4.0	3.9	3.7	3.4	2.8	2.4	
52.0														50.9m x 3.9	3.6	3.4	2.9	2.4	2.0	
54.0															53.5m x 3.4	3.1	2.5	2.0		

- Notes

 1. Above rated loads are based on firm level ground, within 78% of tipping load at any point 360° throughout and with front stability of 1.15 or more.

 2. Working radius is horizontal distance from center of rotation to a vertical line through the center of gravity of the load.

 3. The weight of the slings, hook block(s) and auxiliary lifting devices must be considered to be a part of the load.

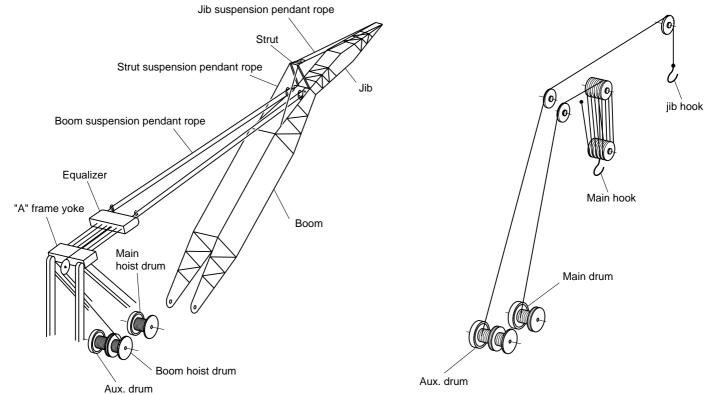
The weight of the sline	gs, hook block(s) and	l auxiliary lifting device	es must be considere	ed to be a part of the	
load.					
Hook block					
120ton capacity…1.60					
50ton capacity ··· 0.95	oton 30ton capacity	/···0.75ton			
11ton capacity ··· 0.40					
Jib boom can be fitted	to main boom in the	following combination	19.0 25.0		
Jib lenath(m)	Auxiliary	13.0	19.0 25.0 30.0~63.0 30.0~63.0		
oib icrigar(iii)	7 taxiilai y	10.0	10.0	20.0	
Boom length(m)	18.0~72.0	30.0~63.0	30.0~63.0	30.0~63.0	
3 ()					
When jib boom is fitte	d actual loads that ca	an be lifted with main	hook block should b	e reduced according	

to the above chart (the weights include that of the auxiliary hook block).

Jib length(m)	Auxiliary	13.0	19.0	25.0
Weight to be deducted(ton)	0.70	2.80	3.30	3.90

High "A" Frame should be extended before working. The rated loads for the Auxiliary jib must be reduced 0.7 ton from same radius of rated lifting loads of the main boom which installed the jib. The rated loads for the 13m jib~25m jib are same as main boom's one which installed jib.(Ref Jib rated lifting loads). Howevere do not exceed below limit.

Jib length(m)	Auxiliary	13	3.0	19	9.0	25.0		
Jib offset angle	_	10°	30°	10°	30°	10°	30°	
Limted loads (ton)	11.0	11.0	8.5	10.0	6.5	6.5	4.5	



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■Auxiliary jib rated lifting loads

(Unit:metric ton)

Boom length (m) Working radius (m)	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0
5.5	5.7m x 11.0																		
6.0	11.0	6.2m x 11.0	6.7m x 11.0																
7.0	11.0	11.0	11.0	7.2m x 11.0	7.8m x 11.0														
8.0	11.0	11.0	11.0	11.0	11.0	8.3m x 11.0	8.8m x 11.0												
9.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	9.3m x 11.0	9.8m x 11.0										
10.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	10.4m x 11.0	10.9m x 11.0	11.4m x 11.0	11.9m x 11.0						
12.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	12.5m x 11.0	13.0m x 11.0	13.5m x 11.0			
14.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	14.5m x 11.0	
16.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	15.1m x 11.0
18.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
20.0	18.5m x 11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
22.0		21.1m x 11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
24.0			23.7m x 11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	23.8m x 11.0
26.0				11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	27.7m x 11.0	27.6m x 11.0	27.4m x 11.0	27.1m x 11.0	26.9m x 11.0	26.4m x 11.0	9.8
28.0				26.3m x 11.0	11.0	29.2m x 11.0	29.0m x 11.0	28.7m x 11.0	28.5m x 11.0	28.4m x 11.0	28.2m x 11.0	11.0	10.9	10.8	10.7	10.5	10.3	10.2	8.9
30.0					28.9m x 11.0	10.6	10.5	10.3	10.2	10.1	10.0	9.9	9.7	9.6	9.5	9.3	9.1	9.0	8.0
32.0						31.5m x 9.8	9.5	9.3	9.2	9.1	9.0	8.9	8.7	8.6	8.5	8.3	8.1	7.9	7.1
34.0							8.6	8.4	8.3	8.2	8.1	8.0	7.8	7.7	7.6	7.4	7.2	6.9	6.4
36.0								7.6	7.5	7.4	7.3	7.2	7.0	6.9	6.8	6.6	6.4	6.0	5.7
38.0								36.6m x 7.4	6.8	6.7	6.6	6.5	6.3	6.2	6.1	5.9	5.7	5.2	5.0
40.0									39.2m x 6.4	6.1	6.0	5.9	5.7	5.6	5.5	5.3	5.1	4.5	4.3
42.0										41.8m x 5.6	5.5	5.4	5.2	5.1	5.0	4.8	4.6	3.9	3.7
44.0											5.0	4.9	4.7	4.6	4.5	4.3	4.1	3.5	3.2
46.0											44.4m x 4.9	4.4	4.2	4.1	4.0	3.8	3.6	3.0	2.7
48.0												47.0m x 4.2	3.8	3.7	3.6	3.4	3.1	2.5	2.2
50.0													49.6m x 3.5	3.3	3.2	3.0	2.7	2.1	1.7
52.0														3.0	2.9	2.7	2.2	1.7	1.3
54.0														52.2m x 2.9	2.6	2.4	1.8	1.3	

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- Notes

 1. Above rated loads are based on firm level ground, within 78% of tipping load at any point 360° throughout
 and with front stability of 1.15 or more.

 2. Working radius is horizontal distance from center of rotation to a vertical line through the center of gravity
 of the load.
- When the main hook block is installed, the lifting loads of jib must be reduced by the weight of hook block (main and jib) and other lifting devices.

 120ton hook block---1.60ton 60ton hook block---1.15ton 50ton hook block---0.95ton 30ton hook block---0.75ton 11ton hook block---0.40ton

■Jib rated lifting loads

Boom length (m)			30	0.0					42	.0		63.0							
Jib length (m) Offset angle	13	.0	19	0.0	25	5.0	13.0 19.0 25.0			5.0	13	3.0	19	0.0	25	5.0			
Working radius (m)	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	10°	30°	
9.0																			
10.0	11.3m x 11.0																		
12.0	11.0		13.4m x 10.0				13.4m x 11.0												
14.0	11.0	15.0m x 8.5	10.0		14.9m x 5.5		11.0		15.5m x 10.0										
16.0	11.0	8.5	10.0		5.5		11.0	17.1m x 8.5	10.0		17.0m x 5.5		17.0m x 11.0						
18.0	11.0	8.5	10.0	18.9m x 6.5	5.5		11.0	8.5	10.0		5.5		11.0		19.1m x 10.0				
20.0	11.0	8.5	10.0	6.5	5.5		11.0	8.5	10.0	21.0m x 6.5	5.5		11.0	20.8m x 8.5	10.0		20.7m x 5.5		
22.0	11.0	8.5	10.0	6.5	5.5	22.3m x 4.5	11.0	8.5	10.0	6.5	5.5		11.0	8.5	10.0		5.5		
24.0	11.0	8.5	10.0	6.5	5.5	4.5	11.0	8.5	10.0	6.5	5.5	24.3m x 4.5	11.0	8.5	10.0	24.6m x 6.5	5.5		
26.0	11.0	8.5	10.0	6.5	5.5	4.5	11.0	8.5	10.0	6.5	5.5	4.5	11.0	8.5	10.0	6.5	5.5		
28.0	11.0	8.5	10.0	6.5	5.5	4.5	29.8m x 11.0	8.5	10.0	6.5	5.5	4.5	28.3m x 11.0	8.5	10.0	6.5	5.5	4.5	
30.0	30.7m x 11.0	8.5	10.0	6.5	5.5	4.5	10.9	8.5	31.7m x 10.0	6.5	5.5	4.5	10.0	8.5	10.0	6.5	5.5	4.5	
32.0	10.4	8.5	32.8m x 10.0	6.5	5.5	4.5	9.9	8.5	9.9	6.5	5.5	4.5	9.0	33.1m x 8.5	9.0	6.5	5.5	4.5	
34.0	9.5	8.5	9.5	6.5	5.5	4.5	9.0	35.3m x 8.5	9.0	6.5	5.5	4.5	8.1	8.1	8.1	6.5	5.5	4.5	
36.0	8.7	36.6m x 8.5	8.7	6.5	5.5	4.5	8.2	8.2	8.2	6.5	5.5	4.5	7.3	7.3	7.3	6.5	5.5	4.5	
38.0	8.0	8.0	8.0	6.5	5.5	4.5	7.5	7.5	7.5	6.5	5.5	4.5	6.6	6.6	6.6	38.4m x 6.5	5.5	4.5	
40.0	7.4	7.4	7.4	6.5	5.5	4.5	6.9	6.9	6.9	41.5m x 6.5	5.5	4.5	6.0	6.0	6.0	6.0	5.5	4.5	
42.0	40.1m x 7.4	41.1m x 7.1	6.9	43.5m x 6.5	5.5	4.5	6.4	6.4	6.4	6.4	5.5	4.5	5.5	5.5	5.5	5.5	5.5	4.5	
44.0			6.4	6.4	5.5	4.5	5.9	5.9	5.9	5.9	45.6m x 5.5	4.5	5.0	5.0	5.0	5.0	5.0	4.5	
46.0			45.8m x 6.0	5.9	5.5	4.5	5.4	5.4	5.4	5.4	5.4	4.5	4.5	4.5	4.5	4.5	4.5	46.1m x 4.5	
48.0				47.1m x 5.7	5.5	4.5	5.0	5.0	5.0	5.0	5.0	4.5	4.1	4.1	4.1	4.1	4.1	4.1	
50.0					5.1	4.5	4.6	4.6	4.6	4.6	4.6	50.7m x 4.5	3.7	3.7	3.7	3.7	3.7	3.7	
52.0					51.2m x 4.9	4.5	50.5m x 4.5	51.5m x 4.4	4.3	4.3	4.3	4.3	3.4	3.4	3.4	3.4	3.4	3.4	
54.0						53.1m x 4.5			4.0	4.0	4.0	4.0	3.1	3.1	3.1	3.1	3.1	3.1	
56.0									3.6	3.6	3.6	3.6	2.7	2.7	2.7	2.7	2.7	2.7	
58.0									56.2m x 3.5	57.5m x 3.4	3.3	3.3	2.4	2.4	2.4	2.4	2.4	2.4	
60.0											3.0	3.0	2.1	2.1	2.1	2.1	2.1	2.1	

- Notes

 1. Above rated loads are based on firm level ground, within 78% of tipping load at any point 360° throughout and with front stability of 1.15 or more.

 2. Working radius is horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
- When the main hook block is installed, the lifting loads of jib must be reduced by the weight of hook block (main and jib) and other lifting devices.

 120ton hook block---1.60ton 60ton hook block---1.15ton 50ton hook block---0.95ton 30ton hook block---0.75ton 11ton hook block---0.40ton

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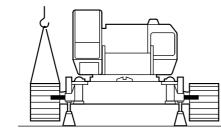
HIRE

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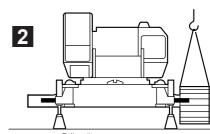
Self dismantling method convenient transportation

Attachments, counterweights and crawler frames can be dismantled to lighten the weight, shorten the width and lower the height of the base machine for convenient transportation



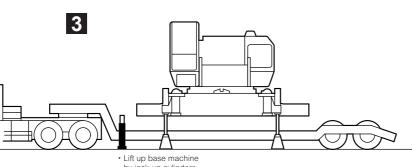
- Remove attachments and counterweights.
 Open and lock jack-up boom.(standerd equipment)
- Disconnect hydraulic hoses of traction motor drive.
 Set pedestals on firm level ground.

- Lift up base machine slightly by jack-up cylinder.
 Suspend crawler frame (approx. 13ton) with another crane.
 Push out and remove crawler frame by laterl cylinder (standard

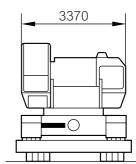


 Follow the same procedures to remove the other side of the crawler frame.

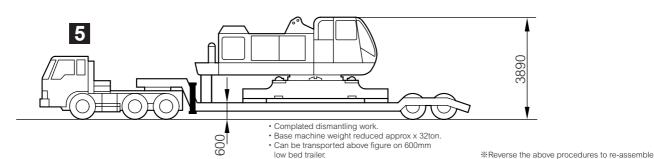
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by jack-up cylinders to provide enough ground clearance for receiving trailer underneath.



· Retract jack-up cylinders to bring the base machine in contact with the trailer bed, then turn the superstructure 90° to direct the operator's cab in the opposite divection as trailer.



■Optional Equipment Moment limiter (overload prevention) Warning at 90% of rated load Warning at optionally set boom angle Shockless stop, load hoist and boom hoist or lowering at limited condition Insert boom (w/pendant cable) 3m, 6m, 9m 13m basic jib, 3m, 6m insert (w/pendant rope) Auxiliary jib 60 ton, 50 ton, and 30 ton hook block

11 ton hook block for jib Combustion type heater

Air conditioner Wierless phone Yellow rotary light Boom point clearance light Bullhorn Catwalk Catwalk (w/handrail) Offlimit fence Electrical type level indicator Safety guard on boom Reeving winch Hydraulic type tagline

Rope guide roller on boom (additional) Name plate (both side of outer boom and cab) Fire extinguisher Flash light for inspection Hoist drum mirror Boom foot pin cylinder Fulcrum plate for rising of attachment Monitor TV (watching rear left and drum) Monitor TV (watching lifting load) Large size tool box with caster Sling wire for disassembling and assembly

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Four powerful, independently driven drum winches mounted on dual in-line shafts

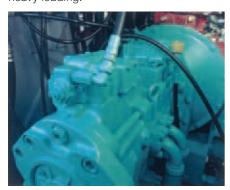
Main and auxiliary drums are located on the left side on front and rear shafts while jib hoist and boom hoist drums are on the right. Each drum is individually driven via a reduction unit from a variable displacement axial piston type hydraulic motor, delivering powerful winch performance.

(Front right drum is optional on applications other than the luffing jib crane.)



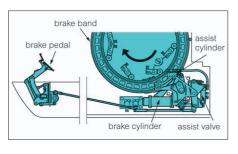
■ Rower-efficient fully controlled hydraulic system

Two variable displacement pumps and one gear pump incorporated into the engine provide the most effective application of engine output. Hydraulic flow and pressure are automatically regulated within maximum engine output, delivering high flow and low pressure for lighter loads, low flow and high pressure under heavy loading.



Eatigue-free brake operation

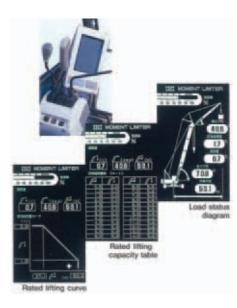
Hydraulically assisted main and auxiliary braking systems allow easy, delicate half-brake control.



■Moment limiter (Option)

The moment limiter has a graphic display with interactive screen. A panel switch lets the operator select from three display modes: load status diagram, rated lifting curve, and rated lifting capacity table.

When the actual load reaches 90% of rated lifting capacity, an intermittent warning buzzer sounds. At 100% of rated capacity, the buzzer sounds continuously, ceasing when load is hoisted or when boom is lowered. The moment limiter uses shockless control valves to slow and then stop the movement of boom or tower jib as they reach minimum or maximum operating angles. Boom angle limitations can be set by the operator, and the display blinks as a warning when these limits are reached.



Mode selector switch installed in control lever

Control levers, pedals and switches are designed for easy operation. One-touch winch mode selector switches (foot/auto braking) are installed in the grips of main and auxiliary drum control levers. And an engine throttle control is built into the grip of the swing control lever, for fingertip command over engine speed.



■ Itra-low-speed control for precision work

Hydraulic pump delivery volume is controlled in conjunction with engine speed, supplemented by an independent swash-plate angle control dial. Together, these devices provide easy, accurate, seat-side control over delivery volume, for precise inching work.

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● ØK monitor

The OK monitor allows the operator to assess mechanical operating conditions at a glance, without leaving the seat. It includes bar graphs for water temperature, engine oil pressure and hydraulic oil temperature gauges, along with battery charging and air cleaner clogging information.

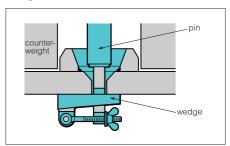


● Fuel-efficient automatic engine deceleration system

With the Auto-Decel selector engaged, the system senses hydraulic pressure, reducing engine speed to idle speed when the crane is inactive.

Stacking type counterweights

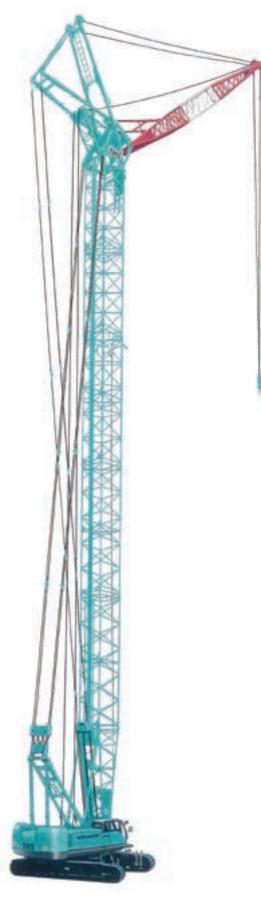
Counterweights are stacked on the tail of the turntable, for excellent stability, efficient transport, and safe and easy assembly/disassembly. Weights—seven blocks of up to 14.7ton—are secured directly to the turntable with pins and wedges.



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