



SCX6500

HITACHI SUMITOMO

SCX6500

LARGE HYDRAULIC CRAWLER CRANE

Specifications

- 2nd Edition

Hitachi Sumitomo Heavy Industries Construction Crane Co., Ltd.

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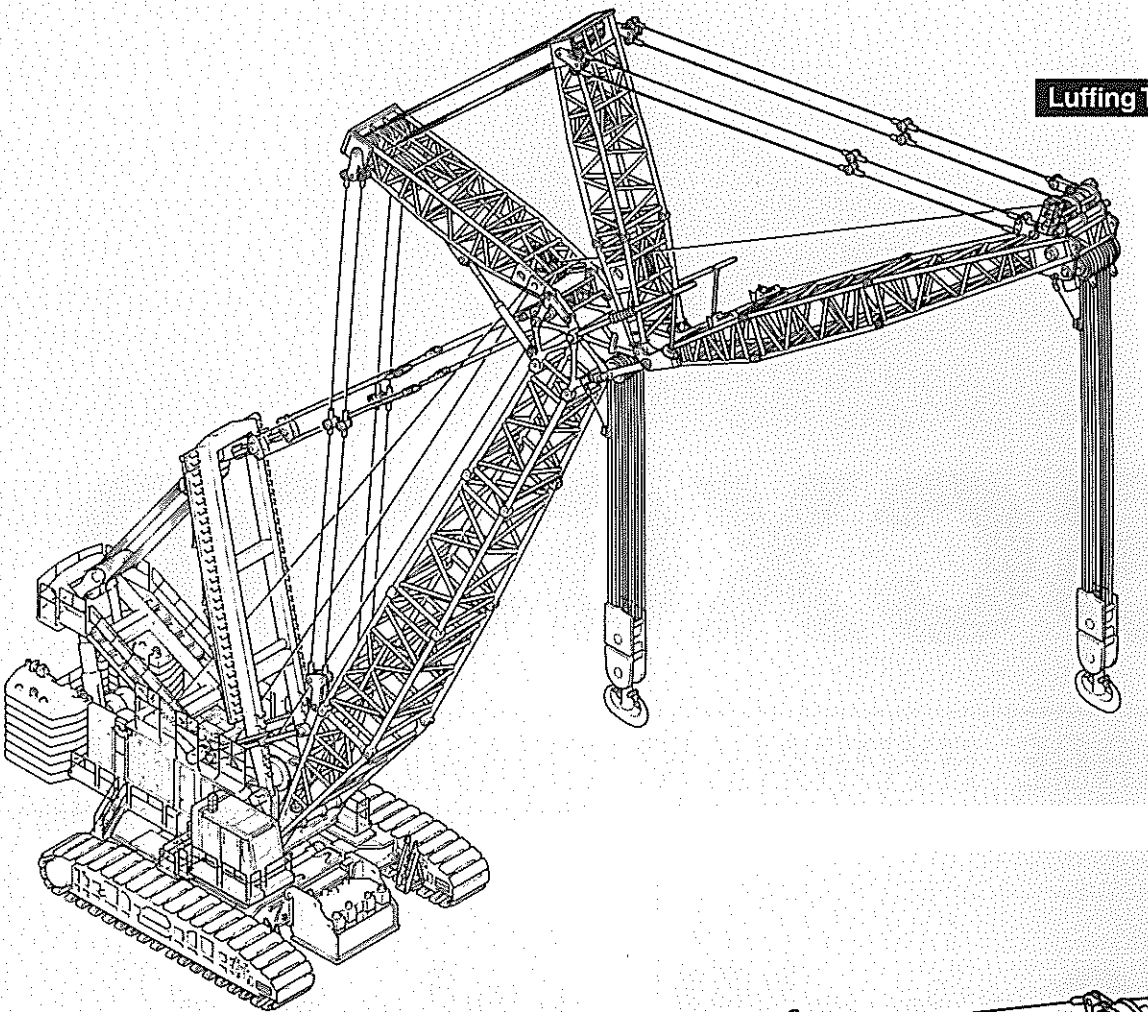
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- Units in this specification are shown under International System of Units; the figures in parenthesis are under Gravitational System of Units as old one.

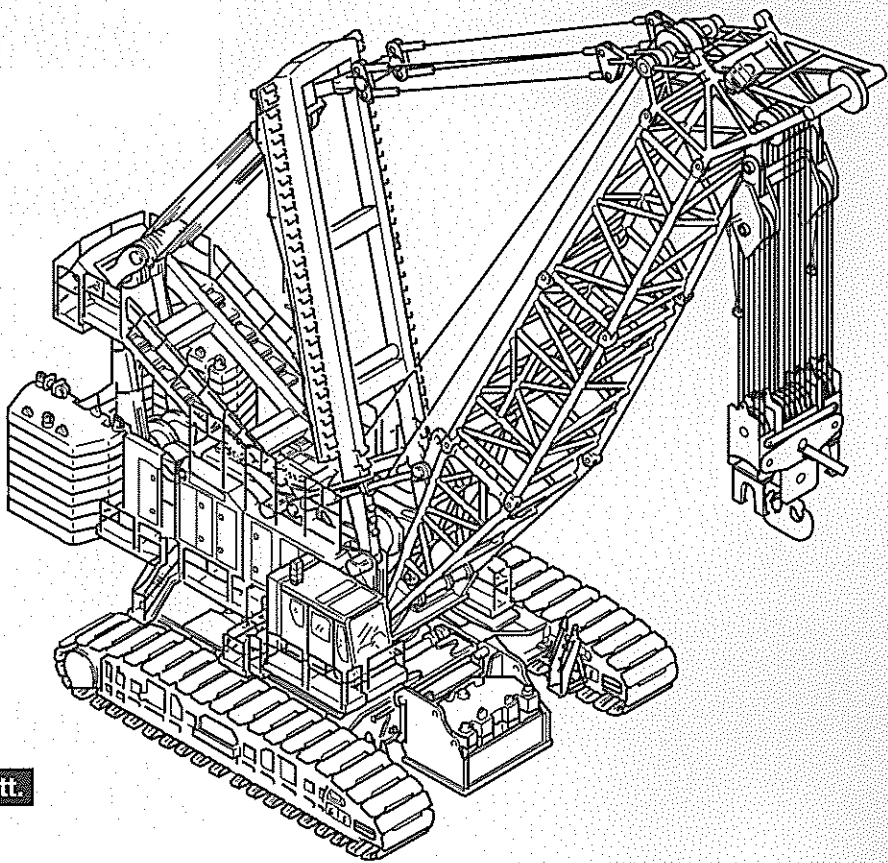
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Front-end Attachment Versions



Luffing Towercrane Att.



Liftcrane Att.

Liftcrane Capacities

■w/H650 Heavy duty top section & S- II ctwt arrangement

Working radius (m)	Boom length (m)										
	18.29	24.38	30.48	36.58	42.67	48.77	54.86	60.96	67.06	73.15	79.25
6.0	650.0	630.0/6.7									
7.0	620.0	620.0	594.0/7.3								
8.0	534.0	534.0	533.0	532.0	470.0/8.8						
9.0	468.0	468.0	467.0	465.0	462.0	430.0/9.4					
10.0	416.0	416.0	415.0	414.0	413.0	410.0	350.0/10.1	296.8/10.8	265.8/11.5		
12.0	340.0	340.0	339.0	337.0	336.0	335.0	330.0	296.8	262.8	225.8/12.2	185.8/12.9
14.0	286.0	285.5	284.6	283.9	279.5	274.1	266.6	262.7	251.0	220.3	184.3
16.0	240.0	239.0	238.5	238.6	235.0	230.3	223.2	219.6	217.1	214.2	181.6
18.0	200.8	200.8	200.8	200.8	200.7	197.6	190.9	187.5	185.2	182.3	178.9
20.0	162.0/18.9	172.7	172.7	172.7	172.5	172.0	165.8	162.6	160.4	157.7	155.9
22.0		151.0	151.0	150.9	150.7	150.1	145.7	142.7	140.6	138.0	136.2
24.0		133.6	133.6	133.5	133.3	132.6	128.9	126.5	124.4	121.9	120.2
26.0		130.0/24.2	119.4	119.3	119.1	118.4	114.6	113.0	111.0	108.5	106.8
28.0			107.5	107.5	107.2	106.6	102.7	101.5	99.6	97.2	95.6
30.0			100.2/29.4	97.5	97.2	96.6	92.7	91.7	89.9	87.5	85.9
32.0				88.9	88.7	88.0	84.1	83.1	81.4	79.1	77.5
34.0				81.4	81.2	80.6	76.7	75.6	74.0	71.8	70.2
36.0				79.0/34.7	74.7	74.1	70.2	69.0	67.4	65.3	63.7
38.0					68.9	68.3	64.4	63.1	61.6	59.5	58.0
40.0					63.7	63.2	59.3	57.7	56.3	54.3	52.8
42.0						58.6	54.7	52.9	51.6	49.6	48.2
44.0						54.2	50.1	48.5	47.3	45.3	43.9
46.0							51.2/45.3	46.0	44.5	43.3	41.5
48.0								42.1	40.8	39.7	37.9
50.0								38.4	37.3	36.4	34.6
52.0								37.3/50.5	34.1	33.3	31.6
54.0									31.1	30.4	28.8
56.0									28.5/55.8	27.6	26.1
58.0										25.1	23.6
60.0										22.6	21.3
62.0										21.3/61.1	19.1
64.0											17.0
66.0											15.0
68.0											14.6/66.4
70.0											10.6
72.0											9.2/71.6

(EC404039-A)

■w/L300 light duty top section & S- II ctwt arrangement

Working radius (m)	Boom length (m)											
	18.29	24.38	30.48	36.58	42.67	48.77	54.86	60.96	67.06	73.15	79.25	85.34
6.0	325.0	325.0/6.7										
7.0	325.0	325.0	325.0/7.3									
8.0	325.0	325.0	325.0	325.0	325.0/8.8							
9.0	325.0	325.0	325.0	325.0	325.0	325.0/9.4						
10.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0/10.1	300.0/10.8	269.0/11.5			
12.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0	300.0	266.0	229.0/12.2	189.0/12.9	159.0/13.6
14.0	286.0	285.5	284.6	283.9	279.5	274.1	269.8	265.9	254.2	223.5	187.5	158.5
16.0	240.0	239.0	238.5	238.6	235.0	230.3	226.4	222.8	220.3	217.4	184.8	155.8
18.0	200.8	200.8	200.8	200.8	200.7	197.6	194.1	190.7	188.4	185.5	182.1	153.2
20.0	162.0/18.9	172.7	172.7	172.7	172.5	172.0	169.0	165.8	163.6	160.9	159.1	141.9
22.0		151.0	151.0	150.9	150.7	150.1	148.9	145.9	143.8	141.2	139.4	132.0
24.0		133.6	133.6	133.5	133.3	132.6	132.1	129.7	127.6	125.1	123.4	121.0
26.0		130.0/24.2	119.4	119.3	119.1	118.4	117.8	116.2	114.2	111.7	110.0	107.7
28.0			107.5	107.5	107.2	106.6	105.9	104.7	102.8	100.4	98.8	96.4
30.0			100.2/29.4	97.5	97.2	96.6	95.9	94.9	93.1	90.7	89.1	86.8
32.0				88.9	88.7	88.0	87.3	86.3	84.6	82.3	80.7	78.5
34.0				81.4	81.2	80.6	79.9	78.8	77.2	75.0	73.4	71.2
36.0				79.0/34.7	74.7	74.1	73.4	72.2	70.6	68.5	66.9	64.8
38.0					68.9	68.3	67.6	66.3	64.8	62.7	61.2	59.0
40.0					63.7	63.2	62.5	60.9	59.5	57.5	56.0	53.9
42.0						58.6	57.9	56.1	54.8	52.8	51.4	49.3
44.0						54.2	53.3	51.7	50.5	48.5	47.1	45.1
46.0						51.3/45.3	49.2	47.7	46.5	44.7	43.3	41.3
48.0							45.3	44.0	42.9	41.1	39.8	37.8
50.0							41.6	40.5	39.6	37.8	36.5	34.6
52.0							40.5/50.6	37.3	36.5	34.8	33.5	31.6
54.0								34.3	33.6	32.0	30.8	28.9
56.0								31.7/55.8	30.8	29.3	28.2	26.3
58.0									28.3	26.8	25.7	24.0
60.0									25.8	24.5	23.5	21.7
62.0									24.5/61.1	22.3	21.3	19.6
64.0										20.2	19.3	17.7
66.0										18.2	17.4	15.8
68.0										17.8/66.4	15.6	14.0
70.0											13.8	12.4
72.0											12.7/71.7	10.8
74.0												9.2
76.0												7.7
78.0												7.1/76.9
80.0												

(ECT00080E-3B)



Luffing Towercrane Capacities

■w/L170 light duty top section & S- II ctwt arrangement

Working radius(m)	Boom length(m)									
	36.58	42.67	48.77	54.86	60.96	67.06	73.15	79.25	85.34	91.44
7.0	170.0	170.0/7.7								
8.0	170.0	170.0	170.0/8.4							
9.0	170.0	170.0	170.0	170.0/9.1	170.0/9.8					
10.0	170.0	170.0	170.0	170.0	170.0	170.0/10.5	170.0/11.2	170.0/11.9		
12.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	159.3/12.5	136.2/13.2	116.0/13.9
14.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	157.0	134.5	116.0
16.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	153.9	130.5	116.0
18.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	150.9	126.4	106.7
20.0	170.0	170.0	170.0	170.0	170.0	166.9	164.3	142.6	117.1	98.5
22.0	151.8	151.5	151.1	150.7	149.5	147.1	144.7	142.9	133.0	91.3
24.0	134.6	134.3	133.8	133.4	132.7	131.0	128.7	127.0	124.3	101.5
26.0	120.5	120.2	119.8	119.3	118.6	117.6	115.3	113.7	111.7	94.9
28.0	108.8	108.5	108.0	107.5	106.8	106.2	104.1	102.5	100.6	89.0
30.0	99.0	98.7	98.1	97.6	96.9	96.3	94.4	92.9	91.0	83.7
32.0	90.5	90.2	89.7	89.1	88.4	87.7	86.1	84.6	82.8	78.8
34.0	83.1	82.8	82.3	81.8	81.0	80.4	78.7	77.4	75.5	74.3
36.0	82.4/34.2	76.4	75.9	75.4	74.6	73.9	72.3	70.9	69.2	68.0
38.0		70.7	70.2	69.7	68.9	68.2	66.5	65.2	63.5	62.3
40.0		66.8/39.5	65.2	64.6	63.9	63.1	61.4	60.1	58.4	57.3
42.0			60.6	60.1	59.3	58.4	56.7	55.5	53.8	52.7
44.0			56.5	56.0	55.3	54.1	52.5	51.3	49.7	48.6
46.0			55.0/44.8	52.3	51.5	50.2	48.6	47.5	45.9	44.8
48.0				48.8	47.8	46.6	45.1	44.0	42.4	41.4
50.0				45.2	44.3	43.3	41.8	40.8	39.3	38.2
52.0					41.1	40.2	38.8	37.8	36.3	35.3
54.0					38.1	37.3	36.0	35.1	33.6	32.6
56.0					36.2/55.3	34.6	33.4	32.5	31.1	30.1
58.0						32.1	30.9	30.1	28.7	27.8
60.0						29.6	28.6	27.9	26.5	25.6
62.0						28.9/60.6	26.5	25.8	24.5	23.6
64.0							24.4	23.8	22.5	21.7
66.0							22.5/65.9	21.9	20.7	19.9
68.0								20.1	18.9	18.2
70.0								18.4	17.3	16.5
72.0								17.4/71.2	15.7	15.0
74.0									14.2	13.5
76.0									12.7	12.1
78.0									12.4/76.4	10.8
80.0										9.5
82.0										8.4/81.7
84.0										6.0

(ECT00084E-B)

Notes — Liftcrane capacities

- Capacities included in this chart are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
- Capacities are in metric tons, and are not more than 78% of minimum tipping loads, or based on other factor of machine structural strength limitation.
- Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, and operating speeds. Operator must reduce load ratings to take such conditions into account. Deduction from rated capacities must be made for mass of hook block, weighted ball/hook, sling, spreader bar, or other suspended gear. Hook block mass is as follows:
325t.....9.8ton 170t.....6.5ton 15t.....1.3ton
Blancer block w/10-sheave4.1ton.
*The H650 heavy duty top section consists of (1) L300 light duty top section, and (2) a ten-hanger sheave block.
- All capacities are rated for 360° swing.
- Least stable rated condition is over the side.
- S- II counterweight arrangement of 172ton upper counterweight plus 78ton carbody weight is required for all capacities on these charts; S- I counterweight arrangement with an 130ton upper counterweight is also available, and capacities under its arrangement for each liftcrane application are detailed. If required, please consult us or nearest distributor.
- Attachment must be erected and lowered over the ends of the crawler mounting.
- When handling load off main boom head sheaves in case of mounting auxiliary short jib on top of boom, the deduction of 1,000kg from the capacities shown in these charts must be made.

SCX6500 AUXILIARY SHORT JIB CAPACITIES: Max. 15t

Note: Aux. short jib capacities are detailed for each liftcrane application; if required, please consult us or nearest distributor.

■w/32.00m Tower

Tower length(m)	32.00														
	24.38			30.48			36.58			42.67			48.77		
Jib length(m)	88°	75°	65°	88°	75°	65°	88°	75°	65°	88°	75°	65°	88°	75°	65°
12.0	170.0/13.5			170.0/15.3											
14.0	170.0			170.0			170.0/17.1								
16.0	170.0			170.0			170.0			169.0/18.9					
18.0	170.0			170.0			170.0			166.1			143.4/20.7		
20.0	151.3			150.9			150.5			149.9			141.1		
22.0	135.0	113.8/25.6		134.7			134.3			133.6			133.1		
24.0	116.5	111.7		121.4			121.0			119.9			119.9		
26.0	97.1	101.5		110.3	97.6/28.7		110.0			109.3			109.3		
28.0	87.8/28.9	92.9		98.5	92.2		100.7	85.1/31.7		100.0			99.5		
30.0		85.6		85.7	84.8		92.7	84.2		92.0			91.8		
32.0		79.1	73.4/34.1	73.3	78.5		84.1	77.9		85.1	74.8/34.8		84.7		
34.0		73.4	68.5	69.0/34.7	72.9		74.9	72.4		79.1	71.5		78.6	66.4/37.8	
36.0			63.9		68.0	52.9/38.1	66.3	67.5		72.1	65.6		73.3	65.0	
38.0			59.8		63.6	59.0	57.7	63.2		65.2	62.3		68.6	61.7	
40.0			57.6/41.1		60.1/41.7	55.3	55.9/40.4	59.3	54.7	58.7	58.5		62.7	57.8	
42.0					52.0		55.8	51.5	52.5	55.0	47.7/45.9		57.2	54.4	
44.0					49.0		52.6	48.5	46.0	51.8	47.5		52.1	51.2	
46.0					47.8/46.8		50.4/47.5	45.8	45.6/46.1	48.9	44.9		47.3	48.4	42.0/49.8
48.0										46.3	42.5		42.4	45.8	41.8
50.0										40.2	43.4		37.9/51.8	43.4	39.6
52.0										40.4/52.6	42.5/53.2		38.1	41.1	37.5
54.0													34.4	39.1	35.6
56.0													34.2/58.3	36.3/58.9	32.2
58.0														30.7	
60.0														29.2	

(ECT00124E-B)

Tower length(m)	32.00									
	54.86			60.96			67.06			73.15
Jib length(m)	88°	75°	65°	88°	75°	65°	88°	75°	65°	88°
22.0	121.7/22.5			106.7/24.2						
24.0	118.7			104.9			84.4			62.2/27.8
26.0	114.6			100.6			79.8			61.9
28.0	108.1			95.4			75.2			58.9
30.0	98.8			90.2			71.2			55.1
32.0	90.8			83.3			67.7			52.2
34.0	83.9			77.3			64.4			49.5
36.0	77.9			72.0			61.5			47.1
38.0	72.6			67.3			58.7			44.8
40.0	67.8	59.0/40.9		63.0			56.2			42.5
42.0	63.6	56.9		59.2	52.7		54.0			40.9
44.0	59.2	53.4		55.7	49.6		51.8	47.2/47.0		39.1
46.0	54.4	50.3		51.5	46.7		49.9	45.8		37.5
48.0	50.0	47.5		47.5	44.2		48.1	43.2		35.0
50.0	45.8	44.9		43.9	41.8		44.6	40.9		34.6
52.0	41.9	42.5	36.8/53.7	40.4	39.6		41.3	38.7		33.3
54.0	38.1	40.3	36.5	37.1	37.6	32.5/57.7	38.2	36.7		32.1
56.0	34.3	38.3	34.7	34.0	35.7	32.2	35.4	34.8		31.0
58.0	31.1/57.6	34.6	31.3	30.9	34.0	30.6	32.6	33.1	28.4/61.6	30.0
60.0		33.0	29.8	27.8	32.4	29.1	29.9	31.5	28.1	29.0
62.0		31.4	28.4	25.7/63.3	30.8	27.7	27.3	30.0	26.7	28.1
64.0		30.9/64.7	27.0		29.4	26.4	26.8	25.4	24.2	26.4
66.0			25.9		28.1	25.1	22.2	27.2	24.2	24.2
68.0			24.7/69.8		26.8	24.0	20.8/69.6	26.0	23.0	22.0
70.0					26.5/70.4	22.9	24.8	21.9	19.9	24.2
72.0						21.8	23.7	20.9	17.7	23.1
74.0						21.1/75.5	22.6	19.9	16.8/74.8	22.0
76.0							22.5/76.1	19.0	16.1	21.0
78.0								18.1	15.3	17.4
80.0								17.6/81.2	14.4	16.9
82.0									13.4	15.6
84.0									12.9/80.5	16.4
86.0										16.0
88.0										15.6

(ECT00125E-B)

■w/38.10m Tower

Tower length(m)		38.10														
Jib length(m)		24.38			30.48			36.58			42.67			48.77		
Tower angle	Working radius(m)	88°	75°	65°	88°	75°	65°	80°	75°	65°	88°	75°	65°	88°	75°	65°
12.0	170.0/13.8				170.0/15.5											
14.0	170.0				170.0			170.0/17.3								
16.0	170.0				170.0											
18.0	170.0				170.0			170.0			166.0/19.1					
20.0	170.0				170.0			170.0						143.8/20.9		
22.0	151.6				151.2									141.4		
24.0	135.3				134.9									133.8		
26.0	119.9	103.2/27.2			121.6				121.2					120.0		
28.0	100.4	99.5			110.5				110.1					109.5		
30.0	88.9/29.1	91.1			100.9	88.2/30.3			100.8					100.2		
32.0		83.9			88.1	83.0			92.8	78.2/33.3				92.2		
34.0		77.6			75.7	76.8			85.9	76.2				85.0		
36.0		72.1	54.2/36.7		70.0/34.9	71.4			78.6	70.8				68.9/36.4		
38.0		68.1/37.6				66.6			68.0	68.0				73.9		
40.0			57.4			62.3	55.3/40.6		59.4	61.7				66.6	60.8	
42.0			53.9			58.4	53.0	56.7/40.6	57.9					60.1	57.1	
44.0			51.1/43.7			56.0/43.3	49.8		54.5	48.3/44.6				53.8	53.6	
46.0						47.0			51.4	46.3				50.6		
48.0						44.3			48.5	43.7	46.4/46.3			42.2/48.5	47.7	
50.0						42.6/49.4			47.1/49.0	41.4				40.4	43.5	
52.0										39.2				42.8	38.3	
54.0										37.2				40.6	36.3	38.5/52.1
56.0										36.1/55.1				39.8/54.8	34.4	
58.0															32.7	
60.0															31.1	
62.0															30.5/60.9	
64.0																
66.0																
68.0																
																26.4
																26.0/56.6



Tower length(m)		38.10											
Jib length(m)		54.86			60.96			67.06		73.15		79.25	
Working radius(m)	Tower angle	88°	75°	65°	88°	75°	65°	88°	75°	88°	75°	88°	75°
22.0	121.7/22.7												
24.0	119.2			106.4/24.5									
26.0	115.1			104.9				84.4/26.2					
28.0	108.2			101.3				80.1		62.3		48.3/29.8	
30.0	98.9			95.9				75.6		58.7		46.0	
32.0	90.9			90.3				71.7		55.4		43.2	
34.0	84.0			83.4				68.0		52.5		40.7	
36.0	78.0			77.4				64.8		49.8		38.4	
38.0	72.7			72.1				61.8		47.3		36.3	
40.0	67.9			67.3				59.0		45.1		34.4	
42.0	63.7	54.7/42.4		63.1				56.5		43.0		32.6	
44.0	59.9	52.0		59.3	48.9/45.5			54.2		41.1		31.0	
46.0	55.4	49.0		55.9	48.2			52.1		39.3		29.5	
48.0	50.9	46.2		52.7	45.4			50.1	43.8/48.5	37.7		28.1	
50.0	46.7	43.7		48.4	42.9			48.3	41.9	36.2	39.4/51.6	26.8	
52.0	42.8	41.3		44.7	40.5			45.4	39.5	34.8	38.9	25.6	
54.0	39.0	39.2		41.2	38.5			42.1	37.5	33.5	36.8	24.5	29.4/54.6
56.0	35.2	37.2	32.5/56.3	38.0	36.5			38.9	35.6	32.2	34.9	23.4	28.5
58.0	31.7/57.8	35.4	31.1	34.8	34.7			36.0	33.7	31.1	33.0	22.4	27.1
60.0		33.6	29.5	31.7	33.0	28.6/60.2		33.3	32.0	30.1	31.4	21.5	25.9
62.0		32.0	28.1	28.6	31.4	27.3		30.6	30.5	29.1	29.8	20.6	24.7
64.0		30.5	26.7	26.2/63.5	28.0	26.0		28.0	29.0	28.2	28.3	19.8	23.6
66.0		29.1	25.5	25.5	28.5	24.7	25.5	27.6	27.0	27.0	27.0	19.1	22.6
68.0		28.9/66.2	24.3		27.2	23.6	22.9	26.3	24.8	25.7		18.4	21.7
70.0			23.2		26.0	22.4	21.2/69.2	25.1	22.6	24.5		17.8	20.8
72.0			22.1		24.8		21.4		23.9	20.5	23.3	17.2	20.0
74.0			21.9/72.3				20.4		22.8	18.3	22.2	16.7	19.3
76.0							19.4		21.8	17.2/75.0	21.2	16.2	18.6
78.0							18.5		21.0/77.7		20.2	15.8	17.9
80.0											19.3	14.0	17.3
82.0											18.4	13.3/80.7	16.8
84.0												17.8/83.4	16.3
86.0													15.9
88.0													15.2
90.0													14.8/89.1

(ECT00127E-B)

W/44.20m Tower

Tower length(m)														
44.20														
Jib length(m)	24.38			30.48			36.58			42.67			48.77	
Tower angle	88°	75°	65°	88°	75°	65°	88°	75°	65°	88°	75°	65°	88°	75°
Working radius(m)	88°	75°	65°	88°	75°	65°	88°	75°	65°	88°	75°	65°	88°	75°
22.0	170.0			170.0/15.8			166.0/17.5			149.0/19.3			131.8/21.1	
24.0	170.0			170.0			166.0			149.0			131.8	
26.0	170.0			170.0			166.0			149.0			131.8	
28.0	170.0			170.0			166.0			149.0			131.8	
30.0	151.9			151.5			151.0			149.0			131.8	
32.0	135.6			135.1			134.7			134.1			131.8	
34.0	122.2			121.8			121.4			120.8			131.8	
36.0	103.3	93.9/28.8		110.7			110.4			109.7			109.2	
38.0	89.8/29.4	89.1		101.3	81.6/31.8		101.0			100.4			99.8	
40.0		82.0		90.0	81.1		93.0			92.4			91.9	
42.0		75.9		77.6	75.0		86.1	71.9/34.9		85.4			84.9	
44.0		70.5		70.7/35.1	69.7		79.2	63.5/37.9		78.9			78.9	
46.0		65.7	56.1/39.3	65.0	60.8		64.4	63.4		63.4			63.4	
48.0		63.1/39.2	54.9	60.8	57.0	48.6/43.2	60.2	59.3		58.9	56.7/41.0		56.7/41.0	
50.0		51.5		57.0	53.6	47.4	55.5	55.0		54.6	54.8		54.8	
52.0		48.4		53.6	47.4	44.7	50.1	42.5/47.1		50.1	48.5		48.5	
54.0		45.5		52.2/44.9	44.7	42.2	47.3	41.5	46.9/46.5	46.5	44.4		44.4	
56.0		42.2		42.2	42.2	40.8	44.8	39.3		44.0	37.1/51.1		44.0	
58.0		39.9		39.9	39.9	37.7	44.0/50.6	37.2		41.7	36.2		41.0	
60.0		37.7		37.7	37.7			35.3		39.5	34.3		38.9	32.7/55.0
62.0								32.5		37.0	32.5		31.8	
64.0								32.0/57.7		37.2/55.4	30.9		35.2	30.2
66.0										29.4	33.5		28.7	
68.0										28.0	31.9		27.3	
70.0										27.0/63.4	31.8/62.1		26.0	
72.0													23.6	
74.0													23.0/69.2	
76.0														
78.0														
80.0														
82.0														
84.0														
86.0														
88.0														
90.0														
92.0														
94.0														

(ECT00128E-B)

Tower length(m)										
44.20										
Jib length(m)	54.86			60.96			67.06		73.15	
Tower angle	88°	75°	65°	88°	75°	65°	88°	75°	88°	75°
Working radius(m)	88°	75°	65°	88°	75°	65°	88°	75°	88°	75°
22.0	121.5/22.9			106.2/24.7			82.5/26.4			
24.0	115.5			105.0			78.8			
26.0	108.4			101.9			74.5			
28.0	99.1			96.5			70.6			
30.0	91.1			89.5			67.1			
32.0	84.2			83.6			63.9			
34.0	78.1			77.5			61.0			
36.0	72.8			72.2			58.3			
38.0	68.1			67.5			55.8			
40.0	63.8			63.2			53.6			
42.0	60.0	50.5		60.4			51.5			
44.0	56.2	47.6		56.0	45.3/47.1		51.5			
46.0	51.7	44.8		52.8	44.1	49.6	47.8	40.5/50.1	36.3	33.6
48.0	47.5	42.4		49.0	41.6	47.8	45.3	39.5	36.4	33.6
50.0	43.5	40.1		45.4	39.3	46.0	43.2	38.3	34.9	32.5
52.0	39.7	38.0		41.9	37.3	42.6	40.7	36.3	33.6	31.8
54.0	35.9	36.1		38.6	35.3	39.5	38.4	34.4	32.4	30.9
56.0	32.0	34.3	28.5/58.9	35.4	33.6	36.6	34.2	31.2	31.9	29.0
58.0		32.6	27.6	32.3	31.9	33.8	30.9	30.2	30.2	28.1
60.0		31.0	26.1	29.2	30.4	31.1	29.4	28.2	28.2	26.9
62.0		29.6	24.6	26.5/63.7	28.5	28.0	26.3	27.3	27.3	25.9
64.0		28.2	23.3		27.5	26.0	26.6	27.5	26.9	25.9
66.0		27.0/67.8	22.1		26.3	25.4	25.3	24.7	24.7	23.9
68.0			20.9		25.1	24.2	23.1	23.5	23.5	22.0
70.0			19.8		23.9	23.1	21.0	22.4	22.4	21.0
72.0			18.4/74.9		23.1/73.5	21.0	19.8	21.4	21.4	20.2
74.0						20.0	19.4	20.4	20.4	19.4
76.0						19.4/79.3	18.5	19.4	19.4	18.5
78.0							17.6	18.5	18.5	17.6
80.0							16.2/85.0	17.6	17.6	16.2
82.0								16.2	16.2	15.6
84.0								15.6	15.6	14.8
86.0								14.8	14.8	14.0
88.0								14.0	14.0	13.3
90.0								13.3	13.3	12.6
92.0								12.6	12.6	12.0
94.0								12.0	12.0	11.4

(ECT00129E-B)

W/50.29m Tower

Tower length(m)		50.29														
Jib length(m)		24.38			30.48			36.58			42.67			48.77		
Working radius(m)	Tower angle	88°	75°	65°	88°	75°	65°	88°	75°	65°	88°	75°	65°	88°	75°	65°
14.0	170.0/14.2															
16.0	170.0				165.0			149.0/17.7								
18.0	170.0				165.0			149.0			131.5/18.5					
20.0	170.0				165.0			149.0			131.5			131.5/21.3		
22.0	182.0				151.5			149.0			131.5			131.5		
24.0	135.7				135.2			134.8			131.5			131.5		
26.0	122.3				121.9			121.5			120.8			120.3		
28.0	105.9				110.8			110.4			109.7			109.2		
30.0	90.5/29.6	85.2/30.4			101.4			101.1			100.4			99.9		
32.0		79.9			91.5	74.6/33.4		93.1			92.4			91.9		
34.0		73.9			79.8	72.9		86.1			85.5			85.0		
36.0		68.7			71.3/35.3	67.8		79.7	65.9/36.5		79.4			78.9		
38.0		64.0				63.2		70.9	62.5		74.1	58.4/39.5		73.6		
40.0		59.9	48.9/41.9			59.1		62.4	58.5		69.0	57.4		68.8		
42.0		58.4/40.7				55.5			54.8		62.4	53.8		64.6	52.2/42.6	
44.0			45.8			52.1	42.4/45.8		51.6		56.1	50.6		60.2	49.9	
46.0			43.2			49.1	42.1		48.6		49.8	47.7		55.0	47.0	
48.0			40.7			48.4/46.5	39.8		45.9	37.2/49.7	47.3/46.8	45.0		50.1	44.3	
50.0				39.7/48.8			37.6		43.4	36.9		42.6		45.3	41.9	
52.0							35.5		41.1	34.9		40.3	31.5/53.6	40.4	39.7	
54.0							33.7			33.0		38.2		37.6		
56.0								33.2/54.6		31.2		36.3		39.2/52.5	35.7	27.2/57.5
58.0										29.6		34.6/57.9		27.7	34.0	26.8
60.0										28.0				26.2	32.3	25.3
62.0										27.8/60.3				24.8	30.8	23.9
64.0														23.5	29.6/63.7	22.6
66.0														22.3		21.3
68.0																20.2
70.0																19.1
72.0																18.2/71.6



Tower length(m)		56.39							
Jib length(m)		54.86		60.96		67.06		73.15	79.25
Working radius(m)	Tower angle	88°	75°	88°	75°	88°	75°	88°	88°
22.0	114.0/23.3								
24.0	114.0			106.0/25.1					
26.0	114.0			105.2		82.6/26.9			
28.0	108.6			103.1		79.8		62.3/28.7	
30.0	99.2			97.6		75.4		59.8	44.5/30.4
32.0	91.2			90.6		71.4		56.5	42.4
34.0	84.3			83.7		67.8		53.4	40.0
36.0	78.2			77.6		64.6		50.6	37.8
38.0	72.9			72.3		61.6		48.1	35.7
40.0	68.2			67.5		58.9		45.8	33.8
42.0	63.9			63.3		56.4		43.7	32.1
44.0	60.1			59.5		54.1		41.7	30.5
46.0	56.6	42.7/47.2		56.0		51.9		39.9	29.1
48.0	53.1	41.7		52.9		50.0		38.2	27.7
50.0	48.9	39.4		50.0	38.2/50.2	48.2		36.7	26.4
52.0	44.9	37.2		46.4	36.2	46.5	33.4/53.3	35.2	25.2
54.0	41.0	35.3		42.9	34.0	43.6	32.7	33.9	24.1
56.0	37.2	33.4		39.6	32.1	40.5	30.7	32.6	23.1
58.0	33.4	31.6		36.4	30.2	37.5	28.6	31.5	22.1
60.0	32.5/58.4	29.9		33.4	28.5	34.7	27.1	30.4	21.3
62.0		28.3		30.3	26.9	32.0	25.5	29.4	20.4
64.0		26.8		27.1	25.4	29.4	24.0	28.5	19.6
66.0		25.4	26.9/64.2	24.0	26.9	22.6	27.6	27.6	18.9
68.0		24.1		22.7	24.3	21.3	26.0	26.0	18.2
70.0		22.9		21.5	21.9/69.9	20.1	23.9	23.9	17.6
72.0		22.3/71.0		20.4		18.9	21.7	21.7	17.0
74.0				19.3		17.9	19.6	19.6	16.5
76.0				18.3		16.9	17.8/75.6	16.0	16.0
78.0						15.9		15.6	15.6
80.0						15.0		15.1	15.1
82.0						14.2		13.8/81.3	13.8
84.0							14.0/82.4		

(ECT00133E-B)

■w/62.48m Tower

Tower length(m)		62.48											
Jib length(m)		24.38			30.48			36.58			42.67		48.77
Working radius(m)	Tower angle	88°	75°	65°	88°	75°	65°	88°	75°	65°	88°	75°	
14.0	149.0/14.6												
16.0	149.0				131.5/16.4								
18.0	149.0				131.5			131.5/18.2					
20.0	149.0				131.5			131.5			114.0		114.0/21.7
22.0	149.0				131.5			131.5			114.0		114.0
24.0	135.8				131.5			131.5			114.0		114.0
26.0	122.4				122.0			121.6			114.0		114.0
28.0	111.3				110.9			109.6			109.3		109.3
30.0	91.5				101.5			100.5			99.9		99.9
32.0		70.7/33.5			93.5			93.1			91.9		91.9
34.0		69.4			83.1			86.2			85.0		85.0
36.0		64.5			72.2/35.7	62.2/36.6		80.1			79.0		79.0
38.0		60.2				59.1		73.4	55.3/39.6		74.1		73.6
40.0		56.3				55.3		64.6	54.5		68.9		68.9
42.0		52.8				51.9		64.3	51.2		64.6		64.6
44.0		49.7/43.9				48.8		61.4	49.0/42.7		60.8	43.0/45.7	
46.0			32.8/47.0			46.0		57.7	44.1		56.6	42.7	
48.0			31.8			43.4		54.7	41.4		51.5	40.0	
50.0			29.8			41.4/49.6	27.5/50.9	50.3	39.0		46.7	37.6	
52.0			28.1			38.0		46.8	36.8		41.9	35.4	
54.0			26.4			35.0	23.4/54.9	43.8	34.8		38.7/52.9	33.4	
56.0						33.5	34.7/55.4	42.5	32.9		31.5		
58.0						32.1		41.2	31.1	19.2/58.6	29.8		
60.0						30.7		39.5	29.5	18.5	28.2		
62.0						29.2		37.9	27.9	17.3	26.7		
64.0						27.7		36.3	26.3	16.2	25.3		
66.0						26.2		34.7	24.7	15.2	24.0		
68.0						24.7		33.1	23.1	14.2	23.5/66.6		
70.0						23.2		31.5	21.5	13.3			
72.0						21.7		29.9	19.9	12.8/71.2			

(ECT00134E-B)

Tower length(m)		62.48							
Jib length(m)		54.86		60.96		67.06		73.15	79.25
Working radius(m)	Tower angle	88°	75°	88°	75°	88°	75°	88°	88°
22.0	114.0/23.5								
24.0	114.0			96.0/25.3					
26.0	113.2			96.0		82.6/27.1			
28.0	108.1			96.0		80.4		62.3/28.9	
30.0	99.2			96.0		75.9		60.2	44.5/30.7
32.0	91.2			90.5		71.9		58.8	42.7
34.0	84.3			83.6		68.2		53.7	40.2
36.0	78.2			77.6		64.9		50.9	38.0
38.0	72.9			72.3		61.9		48.4	35.9
40.0	68.1			67.5		59.1		46.0	34.0
42.0	63.9			63.3		56.6		43.9	32.3
44.0	60.1			59.5		54.3		41.9	30.7
46.0	56.6			56.0		52.2		40.1	29.2
48.0	53.5	38.0/48.8		52.9		50.2		38.4	27.8
50.0	49.4	36.5		50.0	39.0/51.8	49.3		36.8	26.6
52.0	45.4	34.3		47.1	32.8	46.6		35.4	25.4
54.0	41.5	32.3		43.5	30.8	44.1	28.3/54.9	34.0	24.3
56.0	37.7	30.4		40.2	28.9	40.9	27.2	32.8	23.2
58.0	33.9	28.6		37.0	27.2	37.9	25.5	31.6	22.3
60.0	32.7/58.6	27.0		33.8	25.6	35.1	23.9	30.5	21.3
62.0		25.5		30.8	24.1	32.4	22.4	29.5	20.5
64.0		24.1		27.7	22.7	29.8	21.0	28.6	19.7
66.0		22.7	27.3/64.4	21.4	27.3	28.7	27.7	27.7	19.0
68.0		21.5		20.1	24.7	26.4	26.4	26.4	18.3
70.0		20.4		19.0	22.1	24.2	24.2	24.2	17.7
72.0		19.3		17.9	22.0/70.1	22.2	22.0	22.0	17.1
74.0		19.0/72.5		16.9		20.9	20.9	20.9	16.5
76.0				15.9		19.7	17.9/75.8	16.1	15.7
78.0				15.0		18.6		15.7	15.7
80.0					14.9/78.3	17.5		15.3	15.3
82.0						16.7		13.9/81.6	13.9
84.0						11.0			

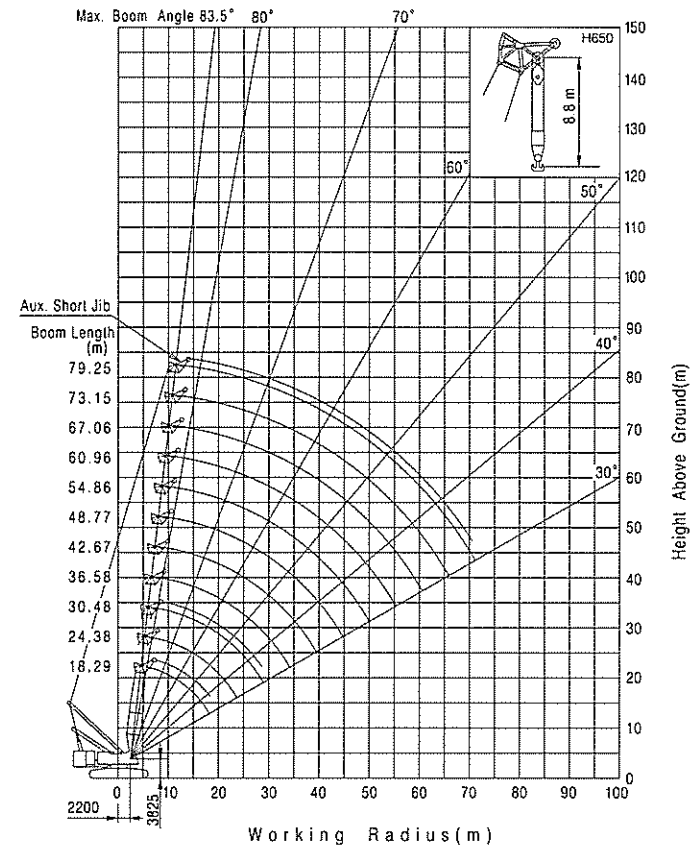
(ECT00135E-B)

■w/68.58m Tower

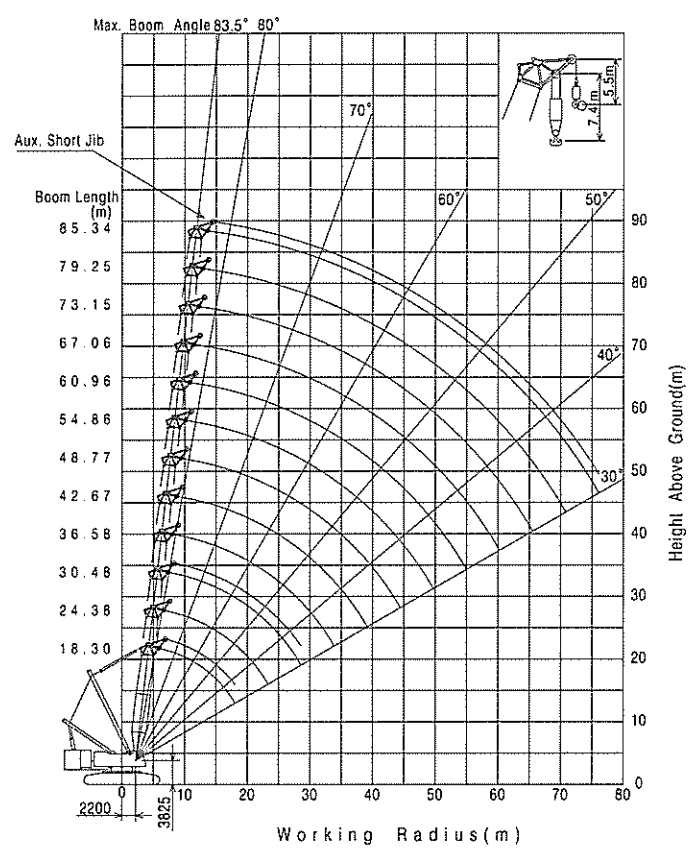
Tower length(m)		68.58											
Jib length(m)		24.38			30.48			36.58		42.67		48.77	
Working radius(m)	Tower angle	88°	75°	65°	88°	75°	65°	88°	75°	88°	75°	88°	75°
14.0	131.5/14.8												
16.0	131.5				131.5/16.6								
18.0	131.5				131.5			114.0/18.4					
20.0	131.5				131.5			114.0		114.0/20.2			
22.0	131.5				130.1			114.0		114.0		114.0	
24.0	127.7				123.4			114.0		114.0		110.5	
26.0	119.6				117.3			113.5		109.0		105.3	
28.0	110.7				110.3			108.0		104.1		100.1	
30.0	94.0				101.6			101.2		99.3		95.6	
32.0	91.9/30.2				93.5			93.2		92.5		91.6	
34.0		63.1/35.1			84.6			85.2		85.5		85.0	
36.0		61.0			72.4/35.9			80.1		79.5		79.0	
38.0		56.8				55.8/38.1		74.7		74.1		73.6	
40.0		53.1				52.3		66.1	49.5/41.2	69.4		68.9	
42.0		49.7				49.0		58.7/41.7	48.2	65.1		64.6	
44.0		46.5				45.9			45.2	58.8	42.9/44.2	60.8	
46.0		44.5/45.5				43.2			42.4	52.5	40.5	57.2	38.2/47.3
48.0			25.6/49.6			38.3			39.9		38.0	52.2	
50.0						37.0/51.2			37.6	48.0/47.4	35.7	47.4	35.0
52.0			23.6				21.5/53.5				33.7	42.6	32.9
54.0			22.1				21.1				31.7	39.7/53.1	31.0
56.0			20.7				19.8				29.9		29.2
58.0				20.3/56.7			18.5			30.9/56.9	28.3		27.6
60.0							17.3				26.7		26.0
62.0							16.2				25.3		24.5
64.0							16.1/62.3				24.8/62.7		23.2
66.0													22.0
68.0													20.8
70.0													20.6/68.4

Liftcrane Working Ranges

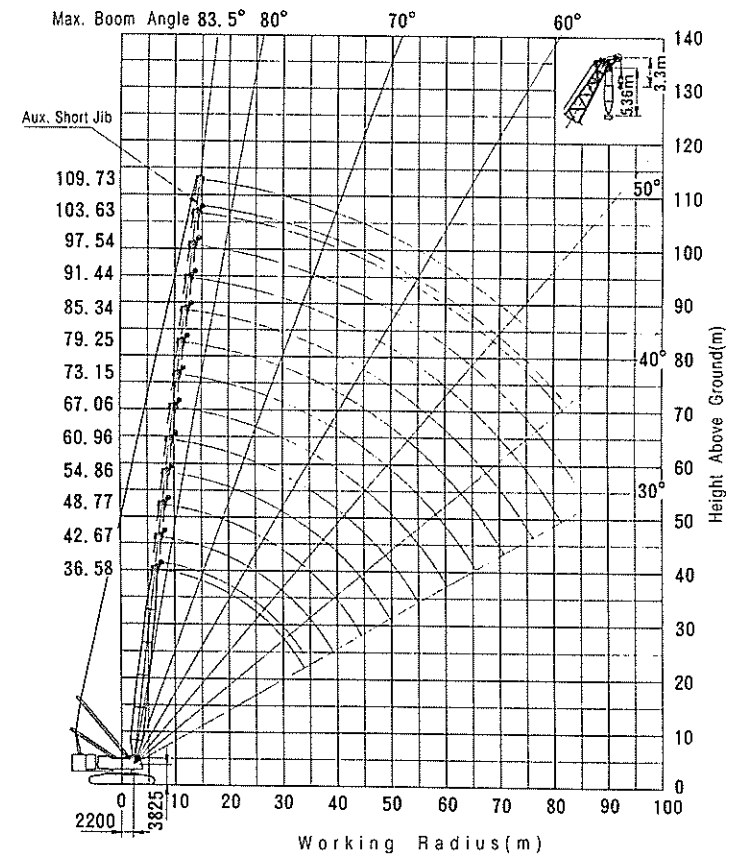
■w/H650 heavy duty top section



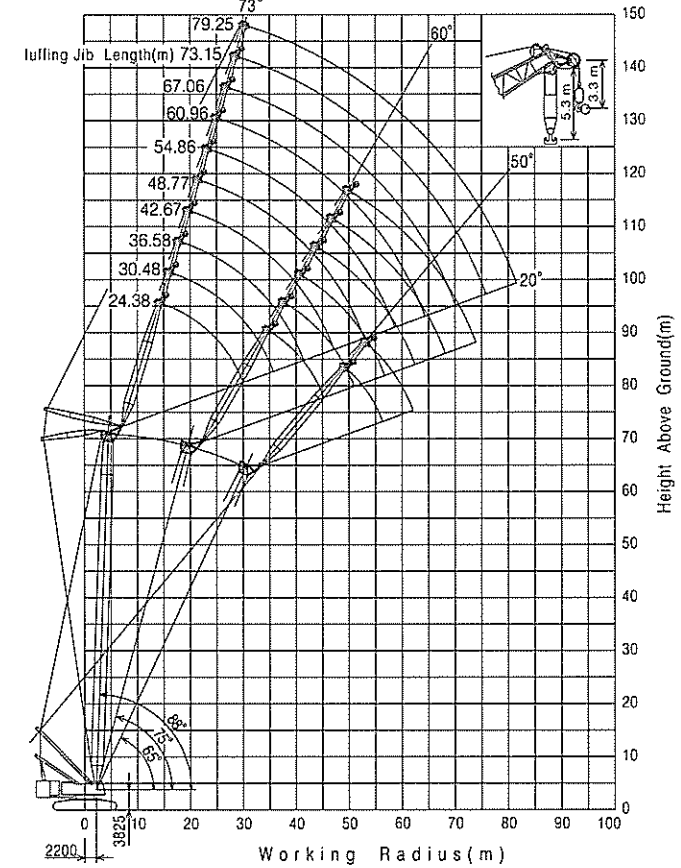
■w/L300 light duty top section



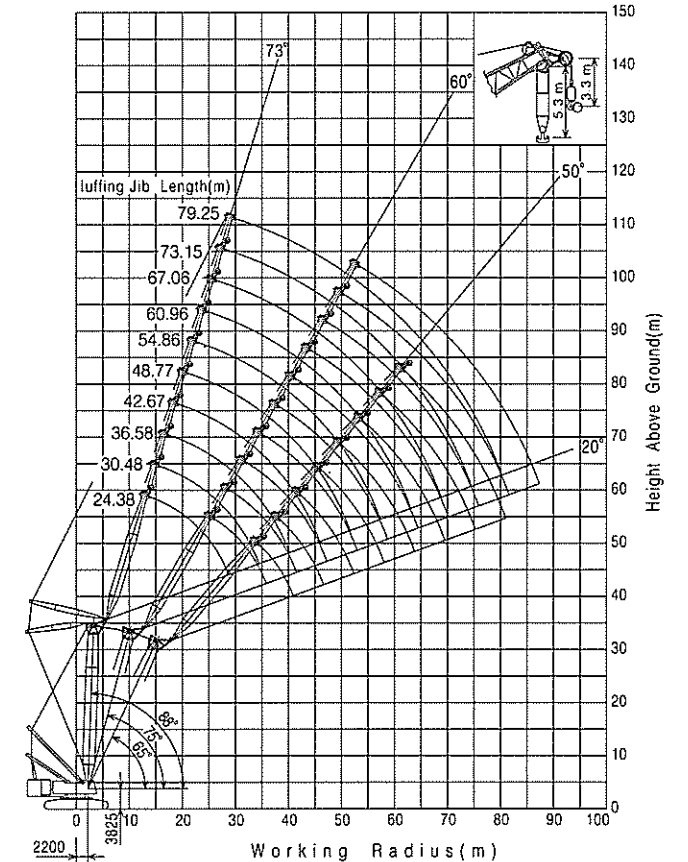
■w/L170 light duty top section



■w/Max. tower boom



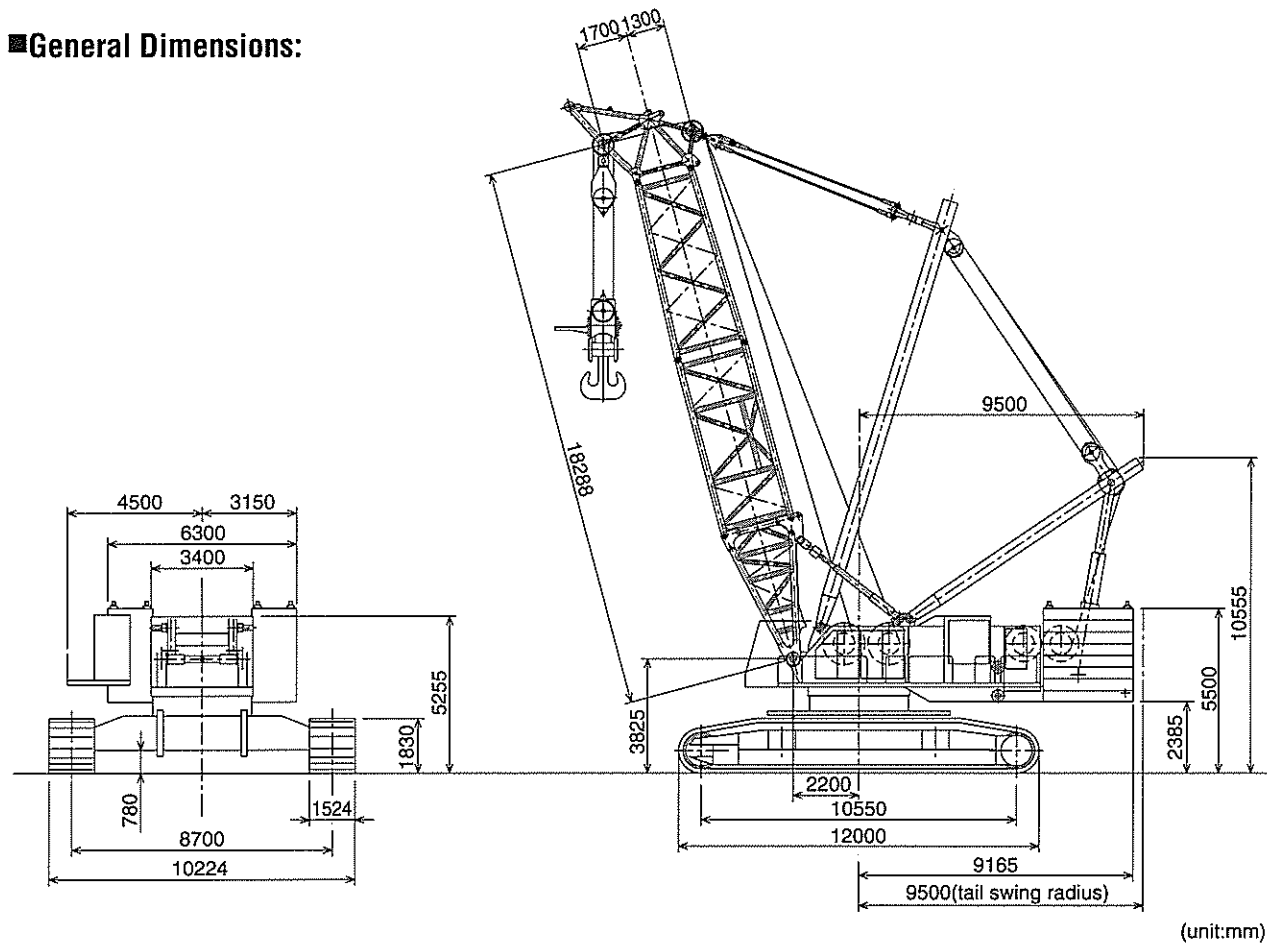
■w/Min. tower boom



General Dimensions & Gist Spec.

Boom/Jib Configuration

General Dimensions:



Gist of Specification:

Kind of boom application		Liftcrane application			Luffing towercrane application
Description		H650 heavy duty top sect. S- II	L300 light duty top sect. S- II	L170 light duty top sect. S- II	
Cap. & boom spec.	Max. lifting capacity (t×m)	650t×6m	325t×6m	170t×20m	170t×20m
	Basic boom/tower length (m)	18.3	18.3	36.6	32.0
	Max. boom/tower length (m)	48.8	85.3	109.7	68.6
	Tower jib length (m)	—	—	—	24.4~79.2m
	Max. tower + jib length (m)	—	—	—	68.6m+79.2m
Working speeds	Front main drum rope speed (m/min)	2-stage; 86/50			
	Rear main drum rope speed (m/min)	2-stage; 86/50			
	Boom hoist drum rope speed (m/min)	40			
	Jib hoist drum rope speed (m/min)	—			2-stage; 79/61
	Swing speed (min ⁻¹)	0.8			
Mass	Travel speed (km/n)	2-stage; 0.8/0.3			
	Working mass (t)	Approx. 610	Approx. 601	Approx. 593t	Approx. 650t
	Alt. Boom length (m)	18.3	18.3	36.6	68.6m+79.2m
	Kind of hook block	650t	325t	170t	170t
	Make & model	Cummins KTTA19-C700			
Engine	Rated output (kW@min ⁻¹)	522@2,100			
	Fuel tank cap. (liter)	850			

Note: S- I counterweight arrangement with an 130ton upper counterweight is also available for each boom application instead of S- II .

Kind of boom application				Liftcrane application			Luffing towercrane application
Kind of boom top section				H650 heavy duty top sect.	L300 light duty top sect.	L170 light duty top sect.	
Counterweight arrangement				S- II	S- II	S- II	S- II
Kind of counterweight	Upper cwt	Std.	130t	○	○	○	○
	Extra	42t	○	○	○	○	○
	Carbody weight	78t	○	○	○	○	○
Max. boom or boom+jib length	Boom			48.8	85.3	109.7	68.6
	Boom+jib			—	—	—	66.6+79.2
No	Kind of boom	Length	—	—	—	—	—
Heavy duty boom	11 Bottom sect.	4.572	1	1	1	1	1
	12 Bottom ext.	6.096	1	1	1	1	1
	13 Tapered ext.	6.096	1	1	1	1	1
	14 Top sect.(H650/L300)	1.524	1	1	—	—	—
	15 6.1m ext.	6.096	—	1	1	—	—
	16 12.2m ext.	12.192	—	3	3	3	3
	17 12.2m HL ext.	12.192	—	2	2	1	1
Light duty boom/luffing jib	21 6.1m special ext.	6.096	—	—	—	1	—
	22 6.1m ext.	6.096	—	—	—	—	1
	23 12.2m ext.	12.192	—	—	1	5	5
	24 Top sect.(L170)	7.62	—	—	1	1	1
	25 Tower head sect.(L300)	3.048	—	—	—	—	1
	26 Jib bottom sect.	4.572	—	—	—	—	1
	— Rear post	—	—	—	—	—	1
	— Front post	—	—	—	—	—	1

Note: 1. No. of quantity of boom/jib shown above each indicates when the longest one of each boom application .

2. In the case that the top section H650/L300 is used as the tower head section under luffing towercrane application, it is used as L300, and its length is 3.048m from center of boom connecting lug hole to center of luffing jib foot pin hole.

3. S- I counterweight arrangement with an 130ton upper counterweight is also available for each boom application. If the detail(s) with lifting performance is required, please consult us or nearest distributor.

4. Live mast is required for each boom application.

MEMO