



TADANO

GT-550E

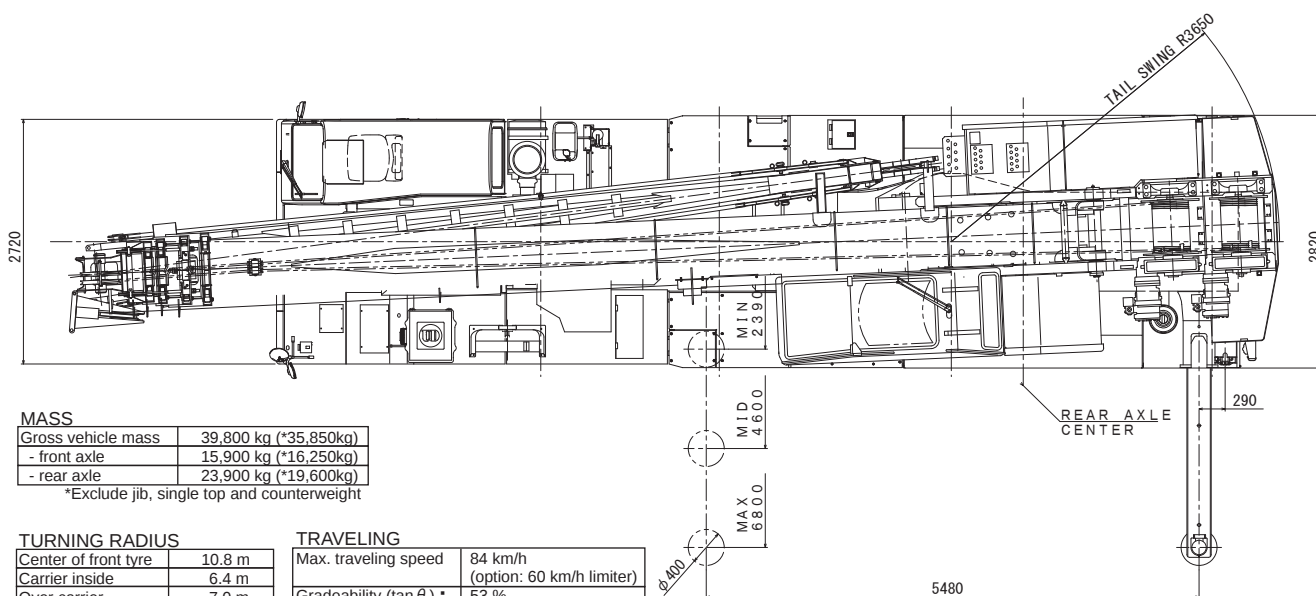
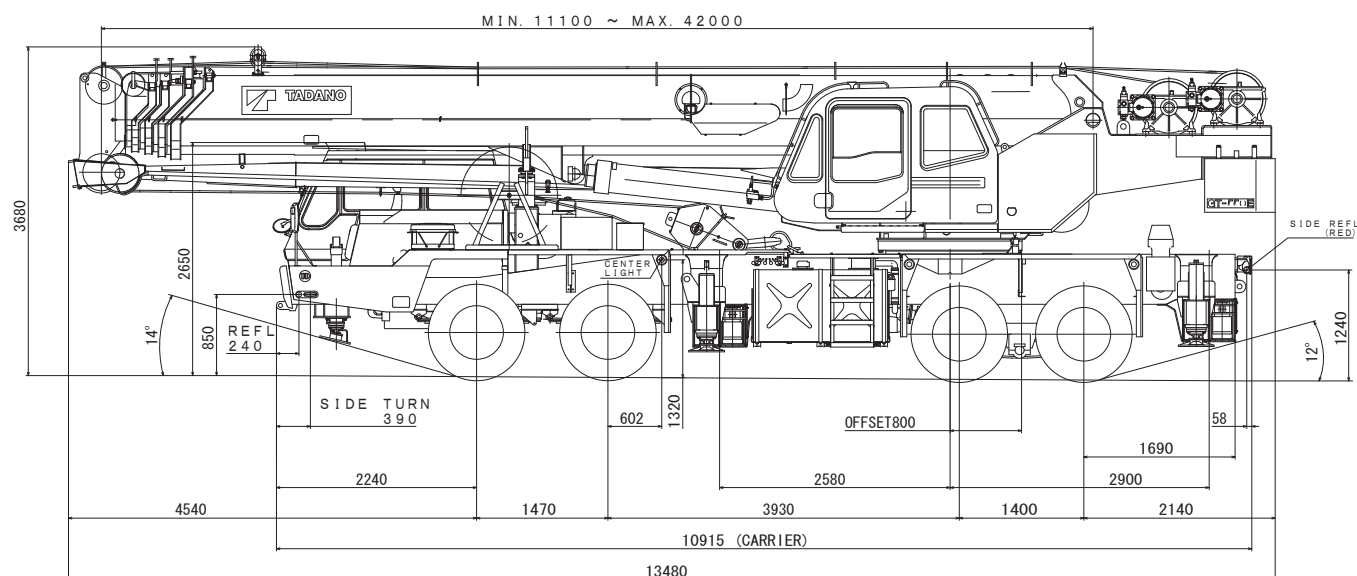
55 Metric Tons Capacity

EURO-2

Spec. sheet No. GT-550E-1-10102/SP-20

HYDRAULIC TRUCK CRANE

DIMENSIONS



MASS

Gross vehicle mass	39,800 kg (*35,850kg)
- front axle	15,900 kg (*16,250kg)
- rear axle	23,900 kg (*19,600kg)

*Exclude jib, single top and counterweight

TURNING RADIUS

Center of front tyre	10.8 m
Carrier inside	6.4 m
Over carrier	7.0 m
Over boom	13.0 m
Over single top	13.8 m

TRAVELING

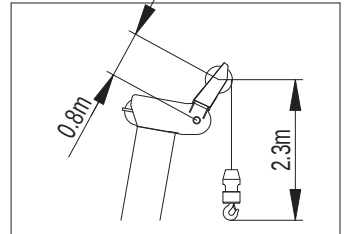
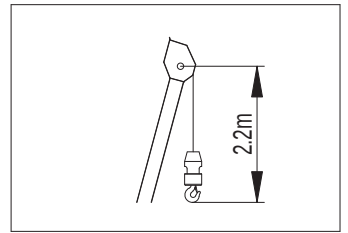
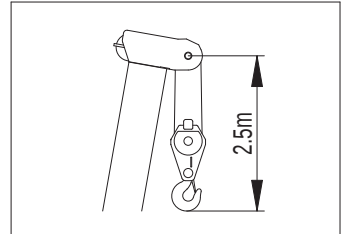
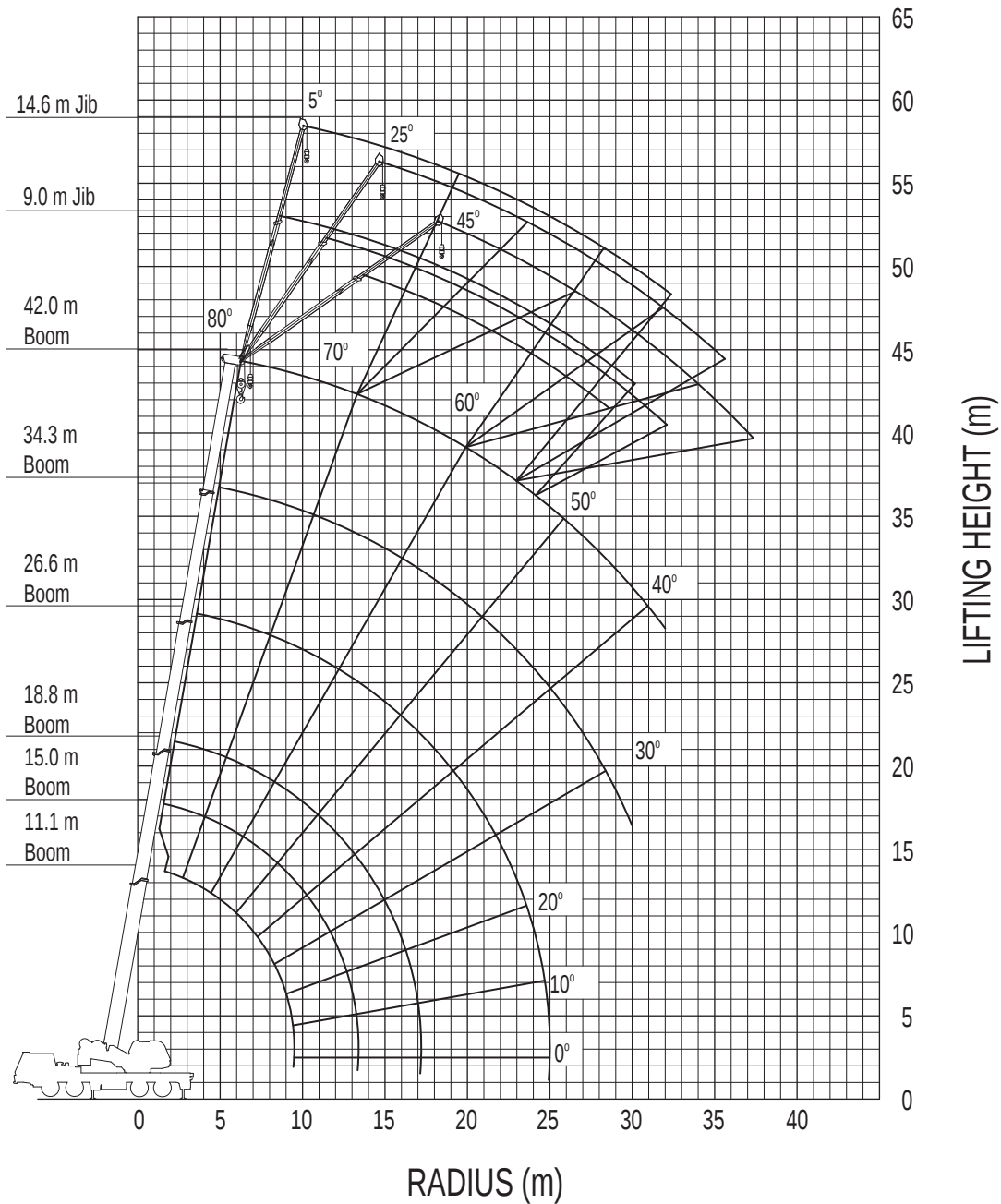
Max. traveling speed	84 km/h (option: 60 km/h limiter)
Gradeability (tan θ) *	53 %

OTHERS

Min. height	230 mm (rear equalizer beam)
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WORKING RANGE

Telescoping mode I

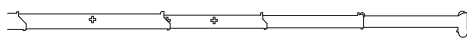


Boom Length

42.0 m Boom



34.3 m Boom



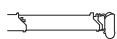
26.6 m Boom



18.8 m Boom



15.0 m Boom



11.1 m Boom

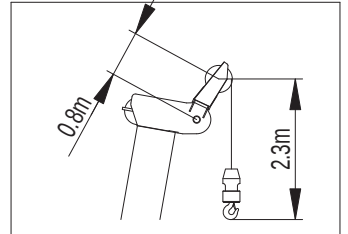
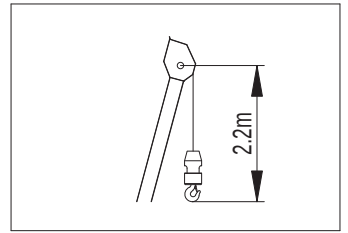
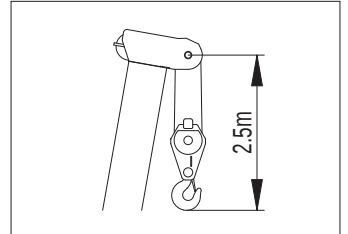
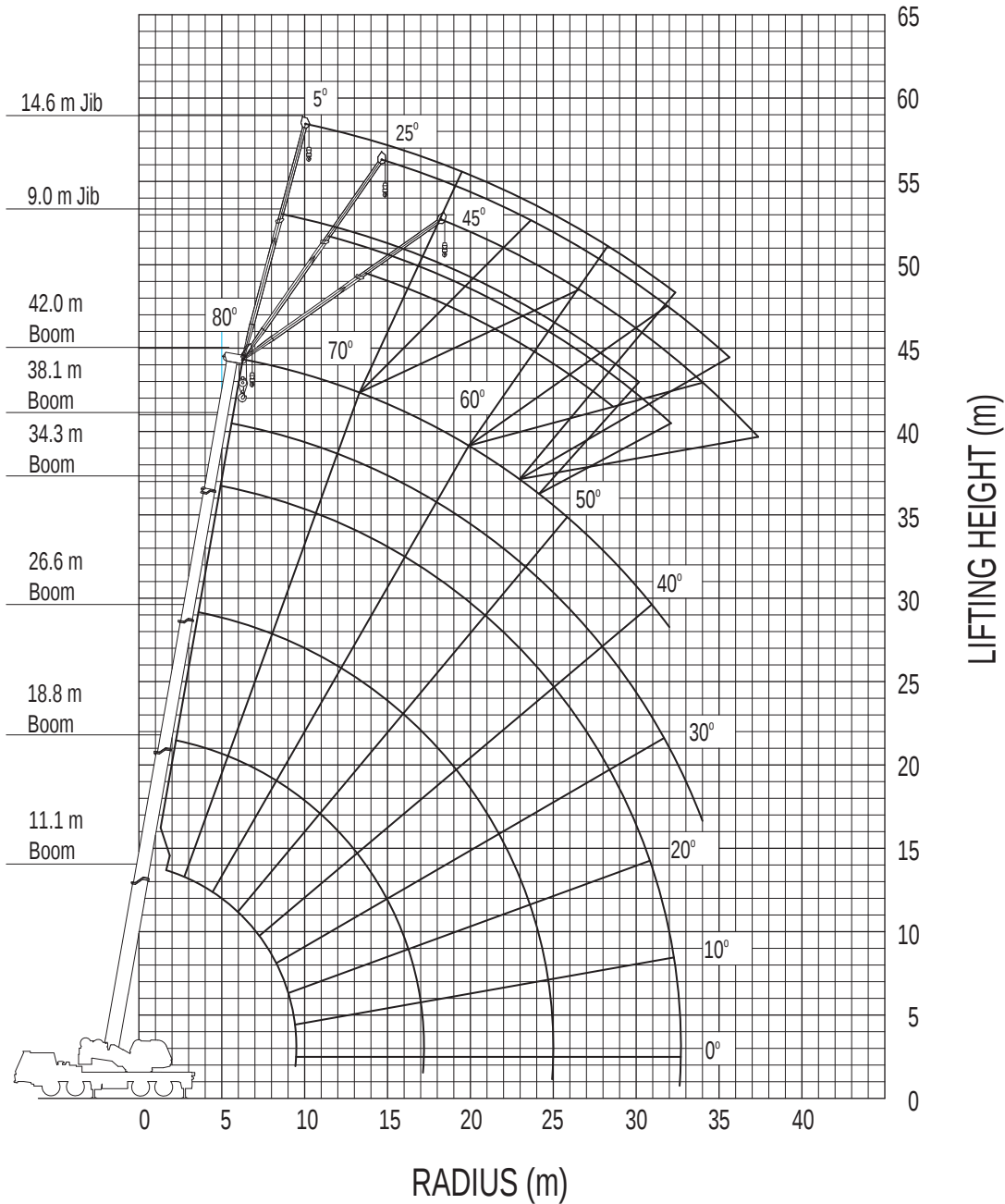


NOTE:

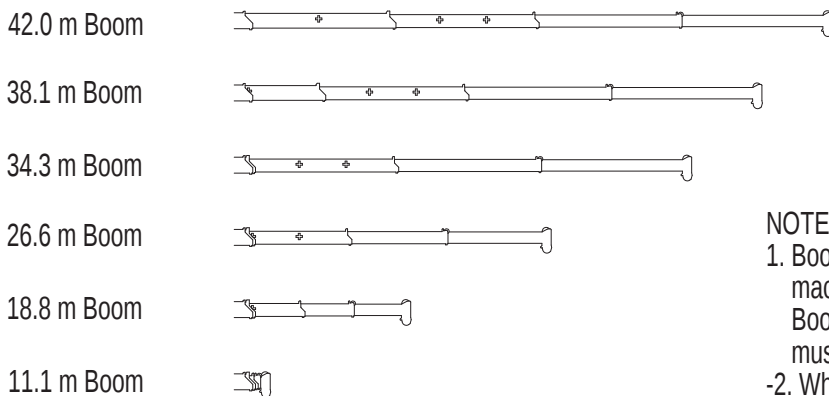
1. Boom and jib geometry shown are for unloaded condition and machine standing level on firm supporting surface. Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.
- 2. When the boom length is 11.1 - 12.0 m, Max boom angle is 76°

WORKING RANGE

Telescoping mode II



Boom Length



NOTE:

1. Boom and jib geometry shown are for unloaded condition and machine standing level on firm supporting surface. Boom deflection and subsequent radius and boom angle change must be accounted for when applying load to hook.
- 2. When the boom length is 11.1 - 12.0 m, Max boom angle is 76°

RATED LIFTING CAPACITIES (Boom)

UNIT : kg CLASS OF CRANE ; C3

Outriggers fully extended 6.8m										
Load radius (m)	11.1 m boom	15.0 m boom	18.8 m boom		26.6 m boom		34.3 m boom		38.1 m boom	42.0 m boom
3.0	55,000	40,000	28,000	20,000						
3.5	43,700	40,000	28,000	20,000						
4.0	38,500	38,100	28,000	20,000						
4.5	34,200	33,800	28,000	19,800	20,000	14,000				
5.0	30,800	30,400	28,000	19,000	20,000	14,000				
5.5	27,800	27,400	27,200	18,200	20,000	13,600				
6.0	25,400	25,000	24,700	17,500	20,000	12,800	14,000	8,000		
6.5	23,200	22,800	22,500	16,800	18,900	12,000	14,000	8,000		
7.0	21,400	21,000	20,700	16,200	17,800	11,400	13,500	8,000	8,000	8,000
7.5	19,700	19,300	19,100	15,700	16,700	10,800	13,000	8,000	8,000	8,000
8.0	18,300	17,900	17,600	15,200	15,800	10,200	12,500	8,000	8,000	8,000
9.0	15,200	14,600	14,200	14,300	14,200	9,300	11,300	7,600	8,000	8,000
10.0		11,600	11,300	13,500	12,500	8,500	10,400	7,000	7,500	8,000
11.0		9,500	9,100	11,400	10,300	7,800	9,600	6,400	6,900	7,500
12.0		7,800	7,500	9,600	8,600	7,200	8,800	5,800	6,400	6,900
14.0			5,100	7,200	6,200	6,200	6,800	4,900	5,500	5,900
16.0			3,500	5,500	4,500	5,400	5,100	4,200	4,700	5,200
18.0					3,300	4,700	3,900	3,600	4,100	4,200
20.0					2,400	3,700	3,000	3,200	3,600	3,200
22.0					1,700	3,000	2,200	2,800	2,800	2,500
24.0					1,200	2,400	1,600	2,500	2,200	1,900
26.0							1,200	2,100	1,800	1,400
28.0							800	1,700	1,400	1,000
30.0							500	1,400	1,000	700
32.0								1,100	700	450
34.0									500	
Telescoping conditions(%)										
Telescoping Mode	I, II	I	I	II	I	II	I	II	II	I, II
2nd boom	0	50	100	0	100	0	100	0	50	100
3rd boom	0	0	0	33	33	66	66	100	100	100
4th boom	0	0	0	33	33	66	66	100	100	100
Top boom	0	0	0	33	33	66	66	100	100	100

NOTES

- Rated lifting capacities shown in the table are based on the condition that the crane is set on firm ground horizontally. Those above bold line are based on crane strength and those below, it is stability.
- Rated lifting capacities in the stability area comply with part 2 / ISO 4305.
- The mass of load handling devices such as hook blocks (570 kg for *55 ton capacity, 400 kg for *20 ton capacity and 130 kg for 4.5 ton capacity) and slings, shall be considered part of the load and must be deducted from rated lifting capacities.
- Without front jack extended, when the boom is within the Over-front, Rated lifting capacities are different from those for the boom in the Over-side and Over-rear.
- Standard number of parts of line for each boom length is as shown below. Load per-line should not surpass 42.2 kN {4,300 kgf} for main winch rope and 44.1 kN {4,500 kgf} for auxiliary winch rope.

*: Optional

Boom Length	11.1 m	15.0 m	18.8 m	26.6 m	34.3 m	38.1 m	42.0 m	Jib/Single top
Number of parts of line	**13/12	10	7	5	4	4	4	1

** : With single top (When the lifting capacities is 55,000 kg)

- Special weather caution: Refer to the operation and maintenance manual.
- For rated lifting capacity of single top, subtract the main hook mass from the relevant boom rated lifting capacity. Rated lifting capacity of single top should not exceed 4,500 kg.
- Load radius shown in the table includes the deflection of the boom. Therefore, perform it according to the load radius. However for the jib operation, perform it according to the boom angle regardless of the boom length. The load radius shows reference value when the jib is attached to the 42.0 m boom, 38.1 m boom (Telescoping mode II) and 34.3 m boom (Telescoping mode I).

RATED LIFTING CAPACITIES (Boom)

UNIT : kg CLASS OF CRANE ; C3

Outriggers extended to middle 4.6 m										
Load radius (m)	11.1 m boom	15.0 m boom	18.8 m boom		26.6 m boom		34.3 m boom		38.1 m boom	42.0 m boom
3.0	32,000	28,000	28,000	20,000						
3.5	32,000	28,000	28,000	20,000						
4.0	32,000	28,000	28,000	20,000						
4.5	26,300	25,500	24,900	19,700	20,000	14,000				
5.0	20,200	19,200	18,700	18,900	20,000	14,000				
5.5	15,800	15,100	14,600	17,700	16,400	13,500				
6.0	12,800	12,200	11,800	14,600	13,300	12,700	14,000	8,000		
6.5	10,600	10,000	9,600	12,300	11,100	12,000	11,900	8,000		
7.0	8,900	8,300	8,000	10,500	9,400	11,100	10,100	8,000	8,000	8,000
7.5	7,500	7,000	6,600	9,100	8,000	9,700	8,700	8,000	8,000	8,000
8.0	6,400	5,900	5,500	7,900	6,800	8,500	7,500	8,000	8,000	7,900
9.0	4,700	4,200	3,900	6,100	5,100	6,700	5,800	7,100	6,500	6,100
10.0		3,000	2,700	4,800	3,800	5,300	4,500	5,600	5,200	4,800
11.0		2,100	1,800	3,800	2,900	4,300	3,500	4,600	4,200	3,800
12.0		1,300	1,000	3,000	2,100	3,500	2,700	3,800	3,400	3,000
14.0				1,900	1,000	2,300	1,600	2,600	2,200	1,900
16.0				1,100		1,500		1,800	1,400	1,000
18.0								1,200		
Telescoping conditions(%)										
Telescoping Mode	I, II	I	I	II	I	II	I	II	II	I, II
2nd boom	0	50	100	0	100	0	100	0	50	100
3rd boom	0	0	0	33	33	66	66	100	100	100
4th boom	0	0	0	33	33	66	66	100	100	100
Top boom	0	0	0	33	33	66	66	100	100	100

UNIT : kg CLASS OF CRANE ; C3

Outriggers extended to minimum 2.39 m						
Load radius (m)	11.1 m boom	15.0 m boom	18.8 m boom		26.6 m boom	
3.0	22,800	22,100	21,700	20,000		
3.5	16,900	16,300	15,900	18,600		
4.0	13,100	12,500	12,100	14,600		
4.5	10,400	9,900	9,500	11,900	10,800	12,500
5.0	8,400	7,900	7,600	9,800	8,800	10,400
5.5	6,900	6,500	6,100	8,300	7,300	8,800
6.0	5,700	5,300	5,000	7,000	6,100	7,600
6.5	4,800	4,300	4,000	6,000	5,100	6,500
7.0	4,000	3,500	3,200	5,200	4,300	5,700
7.5	3,300	2,900	2,600	4,500	3,600	5,000
8.0	2,700	2,300	2,000	3,900	3,000	4,400
9.0	1,800	1,400	1,100	2,900	2,100	3,400
10.0				2,200	1,400	2,700
11.0				1,600		2,100
12.0				1,100		1,600
Telescoping conditions(%)						
Telescoping Mode	I, II	I	I	II	I	II
2nd boom	0	50	100	0	100	0
3rd boom	0	0	0	33	33	66
4th boom	0	0	0	33	33	66
Top boom	0	0	0	33	33	66

RATED LIFTING CAPACITIES (Jib)

UNIT : kg CLASS OF CRANE ; C3

Outriggers fully extended 6.8 m						
Boom angle	42.0 m boom					
	9.0 m jib			14.6 m jib		
	5° offset	25° offset	45° offset	5° offset	25° offset	45° offset
80°	3,500	2,300	1,300	2,500	1,200	700
79°	3,500	2,300	1,300	2,500	1,200	700
78°	3,500	2,300	1,300	2,500	1,200	700
77°	3,400	2,300	1,280	2,350	1,170	690
76°	3,250	2,240	1,260	2,220	1,140	680
75°	3,100	2,160	1,240	2,100	1,120	670
73°	2,840	2,020	1,200	1,890	1,070	650
70°	2,430	1,850	1,150	1,640	1,000	630
68°	2,200	1,730	1,120	1,500	950	620
65°	1,950	1,580	1,070	1,330	910	590
63°	1,780	1,450	1,030	1,220	850	580
60°	1,350	1,180	1,000	1,080	800	570
58°	1,050	920	850	800	750	560
55°	680	590	550	500	480	420
53°	470	410				

UNIT : kg CLASS OF CRANE ; C3

Outriggers fully extended 6.8 m						
Boom angle	38.1 m boom (telescoping mode II) or less than that					
	9.0 m jib			14.6 m jib		
	5° offset	25° offset	45° offset	5° offset	25° offset	45° offset
80°	3,500	2,300	1,300	2,500	1,200	700
79°	3,500	2,300	1,300	2,500	1,200	700
78°	3,500	2,300	1,300	2,500	1,200	700
77°	3,400	2,300	1,280	2,350	1,170	690
76°	3,250	2,240	1,260	2,220	1,140	680
75°	3,100	2,160	1,240	2,100	1,120	670
73°	2,840	2,020	1,200	1,890	1,070	650
70°	2,430	1,850	1,150	1,640	1,000	630
68°	2,200	1,730	1,120	1,500	950	620
65°	1,950	1,580	1,070	1,330	910	590
63°	1,780	1,450	1,030	1,220	850	580
60°	1,550	1,280	1,000	1,080	800	570
58°	1,380	1,200	980	1,000	770	560
55°	1,150	1,080	940	890	730	550
53°	1,000	1,000	920	820	710	540
50°	840					

UNIT : kg CLASS OF CRANE ; C3

Outriggers fully extended 6.8 m						
Boom angle	34.3 m boom (telescoping mode I) or less than that					
	9.0 m jib			14.6 m jib		
	5° offset	25° offset	45° offset	5° offset	25° offset	45° offset
80°	3,500	2,300	1,300	2,500	1,200	700
79°	3,500	2,300	1,300	2,500	1,200	700
78°	3,500	2,300	1,300	2,500	1,200	700
77°	3,400	2,300	1,280	2,350	1,170	690
76°	3,250	2,240	1,260	2,220	1,140	680
75°	3,100	2,160	1,240	2,100	1,120	670
73°	2,840	2,020	1,200	1,890	1,070	650
70°	2,430	1,850	1,150	1,640	1,000	630
68°	2,200	1,730	1,120	1,500	950	620
65°	1,950	1,580	1,070	1,330	910	590
63°	1,780	1,450	1,030	1,220	850	580
60°	1,550	1,280	1,000	1,080	800	570
58°	1,380	1,200	980	1,000	770	560
55°	1,150	1,080	940	890	730	550
53°	1,000	1,000	920	820	710	540
50°	840					

RATED LIFTING CAPACITIES (Jib)

UNIT : kg CLASS OF CRANE ; C3

Outriggers extended to middle 4.6 m						
Boom angle	42.0 m boom					
	9.0 m jib			14.6 m jib		
	5° offset	25° offset	45° offset	5° offset	25° offset	45° offset
80°	3,500	2,300	1,300	2,500	1,200	700
79°	3,500	2,300	1,300	2,500	1,200	700
78°	3,080	2,280	1,300	2,500	1,200	700
77°	2,550	1,910	1,280	2,190	1,170	690
76°	2,090	1,580	1,260	1,800	1,140	680
75°	1,700	1,300	1,070	1,470	1,010	670
73°	1,070					

UNIT : kg CLASS OF CRANE ; C3

Outriggers extended to middle 4.6 m						
Boom angle	38.1 m boom (telescoping mode II) or less than that					
	9.0 m jib			14.6 m jib		
	5° offset	25° offset	45° offset	5° offset	25° offset	45° offset
80°	3,500	2,300	1,300	2,500	1,200	700
79°	3,500	2,300	1,300	2,500	1,200	700
78°	3,500	2,300	1,300	2,500	1,200	700
77°	3,400	2,300	1,280	2,350	1,170	690
76°	2,910	2,200	1,260	2,220	1,140	680
75°	2,480	1,900	1,240	2,100	1,120	670
73°	1,780	1,390	1,160	1,520	1,070	650
70°	1,010					

UNIT : kg CLASS OF CRANE ; C3

Outriggers extended to middle 4.6 m						
Boom angle	34.3 m boom (telescoping mode I) or less than that					
	9.0 m jib			14.6 m jib		
	5° offset	25° offset	45° offset	5° offset	25° offset	45° offset
80°	3,500	2,300	1,300	2,500	1,200	700
79°	3,500	2,300	1,300	2,500	1,200	700
78°	3,500	2,300	1,300	2,500	1,200	700
77°	3,400	2,300	1,280	2,350	1,170	690
76°	2,910	2,200	1,260	2,220	1,140	680
75°	2,480	1,900	1,240	2,100	1,120	670
73°	1,780	1,390	1,160	1,520	1,070	650
70°	1,010					