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Max. lifting capacity (t)	220
Max. lifting torque (kN.m)	6774
Boom length (m)	64
Engine model	TAD720VE
Rated engine power (kW/r/min)	162/2100

QAY220

ALL TERRAIN CRANE

Product Advantages

Superexcellent lifting performance

Fully extended boom length is 13.6 - 64 m, 3m longer than its archivals, in addition to extension jib of 36m, making the product's maximum lifting height reach 94.7m.

Together, compact boom tail structure, increased effective tapping length of lifting boom and decreased jib deflection can effectively avoid partial instable.



Four-axle drive with strong power

Four axles drive the chassis, giving the product good driving performance and strong trafficability. With adoption of the multi-model steering system, transit time can be effectively reduced, and the complete vehicle's working time is increased in turn. As a result, the economic benefits are remarkable.



Advanced disc brake technology

Adoption of the disc brake makes maintenance interval and cost decreased by two-thirds. Moreover, the product has good heat dissipation effect, and can get rid of water quickly, in addition to its high brake stability as well as safe and reliable continuous brake performance.

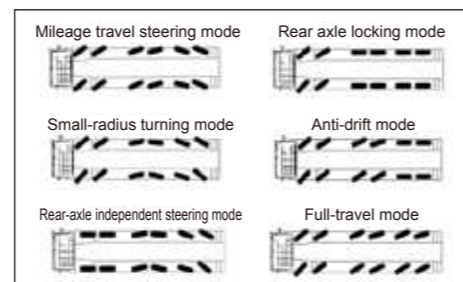


Unique multi-point heat dissipation technology in China

According to the power transmission system's characteristics, the centralized control method is adopted and the multi-point heat dissipation technology is capitalized to dissipate the heat of engine, gearbox, and transfer case at multiple points, as a way to ensure the power transmission system's running stability.

Precise and reliable steering system

The vehicle can carry out multi-mode all-axle steering according to road condition, and the electro-hydraulic proportional steering control technology helps optimize steering precision.



Technical Specifications

QAY220

Item	Unit		
Dimensions	Overall length	15850	mm
	Overall width	3000	mm
	Overall height	3970	mm
Weight	Dead weight in travel state	72000	kg
	1st axle load	12000	kg
	2nd axle load	12000	kg
	3rd axle load	12000	kg
	4th axle load	12000	kg
	5th axle load	12000	kg
Travel	6th axle load	12000	kg
	Max. travel speed	72	km/h
	Min. turning diameter	23	m
	Min. ground clearance	270	mm
	Approach angle	16	°
	Departure angle	18	°
	Max. gradeability	50(72t)	%
	Fuel consumption of 100km	80	L
Power	Superstructure engine model	TAD720VE	
	Superstructure engine rated output	162/2100	kW/(r/min)
	Carrier engine model	OM502LA.E3A/3	
	Carrier engine rated output	420/1800	kW/(r/min)
Lifting performance	Carrier engine max torque	2700/1300	N.m/(r/min)
	Max. lifting capacity	220	t
	Min. rated working radius	3	m
	Turning radius at swing tadbale tail	5087	mm
	Base boom Max.load moment	6774	kN.m
	Base boom	13.6	m
	Full-extend boom	64	m
	Full-extend boom + Jib	96	m
Working speed	Outrigger longitudinal distance span	8.8	m
	Outrigger lateral distance span	8.7/6.5	m
	Boom elevating time	90	
	Boom full elevating time	600	ss
	Max. slewing speed	1.9	r/min
	Main winch max. speed	120	m/min
Auxiliary winch max. speed	110	m/min	

Total Rated Lifting Load

Total rated lifting load for boom											
Fully-extend outrigger 8.7m, counter weight 65t, 360°operation											
Working radius (m)	Boom Length 13.6m	Boom Length 18.2m	Boom Length 18.2m	Boom Length 18.2m	Boom Length 22.9m	Boom Length 22.9m	Boom Length 22.9m	Boom Length 27.5m	Boom Length 27.5m	Boom Length 27.5m	
Lifting load (t)											
3.0	220.0*										
3.5	160.0	150.0	145.0	125.0							
4.0	145.0	140.0	140.0	117.5	115.0	130.0	110.0				
4.5	135.0	130.0	130.0	110.5	108.5	122.5	104.5	103.5	115.0	103.0	
5.0	125.0	125.0	120.0	104.4	102.0	115.5	99.5	98.0	110.0	98.0	
6.0	116.0	113.0	112.5	94.0	91.0	102.0	91.0	87.0	103.0	88.5	
7.0	102.7	101.0	102.0	85.4	81.9	91.0	83.5	78.0	93.0	81.0	
8.0	89.5	89.0	89.7	78.0	74.0	82.5	76.5	70.9	84.5	74.5	
9.0	79.0	78.5	79.2	72.0	67.9	74.9	70.0	64.5	77.5	69.0	
10.0	67.0	70.0	70.9	67.0	62.5	68.5	64.5	59.9	71.0	64.0	
12.0		56.7	57.7	58.3	55.0	57.1	56.0	51.0	57.8	56.5	
14.0		46.7	47.7	48.5	46.2	47.2	48.5	44.5	47.8	49.3	
16.0				38.8	39.7	41.1	39.2	40.5	42.0		
18.0				33.2	34.1	35.3	33.6	34.7	36.2		
20.0							28.3	29.8	31.5		
22.0							24.1	25.6	27.1		
Combination	00000	10000	01000	00100	20000	11000	01100	21000	11100	01110	
Parts of line	16		15			12			11		
Angle area	30.8°~73.3°		31.5°~76.8°			32.0°~79.0°			32.4°~80.5°		
Hook block	160t										
Weight of hook block	2416kg										

- The rated load capacity marked with** means some devices should be added.
- Total rated loads shown in the tables mean that the max.load capacity crane can be ensured when crane is set on flat and firm ground.
- Each total rated load in the tables includes weight of the hook and slings.
- In the Boom Length columns, 0 indicates that boom sections are not extended out; 1 indicates that boom sections are extended out 46%; 2 indicates that boom sections are extended out 92%; 3 indicates that boom sections are extended out 100%.

QAY220 Total rated lifting load for boom										
Fully-extend outrigger 8.7m, counter weight 65t, 360°operation										
Working radius (m)	Boom Length 32.1m	Boom Length 32.1m	Boom Length 32.1m	Boom Length 36.8m	Boom Length 36.8m	Boom Length 36.8m	Boom Length 41.4m	Boom Length 41.4m	Boom Length 41.4m	
Lifting load (t)										
5.0	89.0	95.0	64.5							
6.0	79.5	92.5	61.0	79.0	79.0	73.0				
7.0	73.0	85.4	57.0	72.0	72.5	69.5	56.0	56.5	60.0	
8.0	66.0	79.0	54.0	65.0	66.0	66.0	52.0	52.0	55.0	
9.0	60.0	72.9	51.5	59.0	60.5	62.5	47.5	47.5	50.0	
10.0	55.0	67.0	49.0	54.0	55.5	60.0	43.7	44.0	46.0	
12.0	47.0	58.0	44.5	46.0	47.0	49.5	39.5	37.5	39.5	
14.0	40.0	48.7	41.5	40.0	43.9	43.5	34.5	36.5	35.0	
16.0	35.5	41.3	38.5	35.4	38.5	40.4	30.5	32.0	31.0	
18.0	31.5	35.7	35.5	31.5	34.0	36.5	26.5	28.5	27.9	
20.0	28.5	30.8	32.5	28.0	30.1	31.8	23.9	25.5	25.0	
22.0	24.5	26.5	28.1	25.0	25.8	27.5	21.9	23.0	22.5	
24.0	21.1	23.1	24.8	21.8	22.5	24.1	19.5	21.0	20.9	
26.0	18.0	20.0	21.8	19.0	19.6	21.3	17.5	19.0	19.0	
28.0				16.6	17.3	18.8	16.0	17.3	18.0	
30.0				14.6	15.4	16.8	15.0	15.4	16.3	
32.0							13.5	13.8	14.5	
34.0							12.0	12.3	13.0	
Combination	22000	11110	01111	22100	21110	11111	22200	22110	21111	
Parts of line	9			7			6			
Angle area	32.4°~80.5°			32.7°~81.6°			33.4°~81.9°			
Hook block	100t					65t				
Weight of hook block	1543kg					1001kg				

- Total rated loads shown in the tables mean that the max.load capacity crane can be ensured when crane is set on flat and firm ground.
- Each total rated load in the tables includes weight of the hook and slings.
- In the Boom Length columns, 0 indicates that boom sections are not extended out; 1 indicates that boom sections are extended out 46%; 2 indicates that boom sections are extended out 92%; 3 indicates that boom sections are extended out 100%.

Total Rated Lifting Load

Total rated lifting load for boom												
Fully-extend outrigger 8.7m, counter weight 65t, 360°operation												
Working radius (m)	Boom Length 46.1m	Boom Length 46.1m	Boom Length 46.1m	Boom Length 50.7m	Boom Length 50.7m	Boom Length 50.7m	Boom Length 55.3m	Boom Length 55.3m	Boom Length 55.3m	Boom Length 60.0m	Boom Length 64.0m	
Lifting load (t)												
8.0	48.0	48.5	39.5									
9.0	44.5	45.5	37.5	40.0	40.0	34.5						
10.0	41.4	43.0	35.4	37.5	37.5	33.5	32.5	33.0	29.5			
12.0	35.4	37.0	31.4	32.0	33.5	31.0	29.3	29.5	28.0	25.2		
14.0	31.5	32.4	27.5	28.0	30.0	27.5	27.0	27.5	26.0	23.5	21.3	
16.0	27.5	28.5	24.5	24.5	26.0	24.5	24.5	25.0	23.0	22.0	19.0	
18.0	24.5	25.0	22.0	22.0	23.5	22.0	20.9	22.6	21.0	20.3	17.0	
20.0	22.0	23.0	20.0	20.0	22.0	20.0	20.0	20.6	18.9	19.0	15.3	
22.0	19.9	20.5	18.0	18.9	20.5	18.0	18.3	18.8	17.1	17.1	13.8	
24.0	18.0	19.0	16.5	17.5	17.5	16.5	16.8	17.2	16.0	16.0	12.6	
26.0	16.0	17.0	15.0	16.0	16.0	15.0	15.4	15.7	13.7	14.9	11.6	
28.0	14.5	15.5	14.0	14.5	14.9	14.0	13.8	14.3	13.3	13.9	10.6	
30.0	13.5	14.5	13.0	13.5	13.5	13.0	13.2	13.6	12.3	13.0	9.7	
32.0	12.5	13.5	12.0	12.0	12.5	12.5	11.9	12.3	11.6	12.0	8.9	
34.0	11.5	12.5	11.0	11.5	11.5	11.4	11.4	11.5	10.8	11.0	8.2	
36.0	10.5	11.5	10.5	10.5	10.9	10.0	10.5	10.8	10.3	10.4	7.5	
38.0	9.3	10.3	9.2	9.9	10.1	10.0	9.7	9.9	9.8	9.5	7.0	
40.0				9.3	9.4	9.7	9.0	9.2	9.3	9.2	6.6	
42.0				8.6	8.8	9.2	8.4	8.6	8.8	8.5	6.1	
44.0							7.9	8.0	8.1	8.0	5.7	
46.0							7.3	7.5	7.6	7.5	5.3	
48.0										7.0	4.9	
50.0										6.7	4.6	
52.0										6.5	4.3	
54.0											4.1	
56.0											3.8	
Combination	22210	22111	02221	22220	22211	12221	22221	22212	22122	22222	33333	
Parts of line	5			4			3			3		2
Angle area	33.7°~82.0°			33.7°~82.0°			34.3°~82.0°			34.6°~81.6°		29.7°~80.8°
Hook block	65t										30t	
Weight of hook block	1001kg										447kg	

- Total rated loads shown in the tables mean that the max.load capacity crane can be ensured when crane is set on flat and firm ground.
- Each total rated load in the tables includes weight of the hook and slings.
- In the Boom Length columns, 0 indicates that boom sections are not extended out; 1 indicates that boom sections are extended out 46%; 2 indicates that boom sections are extended out 92%; 3 indicates that boom sections are extended out 100%.

Total rated lifting load for jib												
Jib 36m, fully-extend outrigger 8.7m, counter weight 65t, 360°operation												
Elevation angle (°)	Boom Length 46.1m			Boom Length 50.7m			Boom Length 55.3m			Boom Length 60.0m		
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
Lifting load (t)												
82.0	4.0	2.6	2.0	4.0	2.6	2.0	3.7	2.6	2.0	3.7	2.6	1.8
80.0	3.6	2.3	1.8	3.6	2.3	1.8	3.6	2.3	1.8	3.6	2.3	1.8
78.0	3.3	2.3	1.8	3.3	2.3	1.8	3.3	2.2	1.8	3.2	2.2	1.8
76.0	3.2	2.2	1.8	3.2	2.2	1.8	3.0	2.2	1.8	3.0	2.2	1.8
74.0	3.0	2.2	1.8	3.0	2.2	1.6	2.7	2.0	1.6	2.7	2.0	1.6
72.0	2.7	2.0	1.6	2.7	2.0	1.6	2.7	2.0	1.6	2.7	2.0	1.6
70.0	2.6	2.0	1.6	2.6	2.0	1.6	2.6	2.0	1.6	2.6	2.0	1.6
68.0	2.6	2.0	1.6	2.3	1.8	1.6	2.3	1.8	1.6	2.3	1.8	1.6
66.0	2.3	1.8	1.6	2.3	1.8	1.6	2.3	1.8	1.6	2.3	1.8	1.6
64.0	2.2	1.8	1.6	2.2	1.8	1.6	2.2	1.8	1.3	2.2	1.8	1.3
62.0	2.2	1.8	1.3	2.2	1.8	1.3	2.2	1.6	1.3	2.2	1.6	1.3
60.0	2.2	1.6	1.3	2.0	1.6	1.3	2.0	1.6	1.3	2.0	1.6	1.3
58.0	2.0	1.6	1.3	2.0	1.6	1.3	2.0	1.6	1.3	2.0	1.6	1.3
56.0	2.0	1.6	1.3	2.0	1.6	1.3	1.8	1.6	1.3	1.8	1.6	1.3
54.0	1.8	1.6	1.3	1.8	1.6	1.3	1.8	1.6	1.3	1.8	1.6	1.3
52.0	1.8	1.6	1.3	1.8	1.6	1.3	1.8	1.3	1.3	1.8	1.3	1.3
50.0	1.8	1.3	1.3	1.8	1.3	1.3	1.6	1.3	1.3	1.6	1.3	1.3
48.0	1.8	1.3	1.3	1.6	1.3	1.3	1.6	1.3	1.3	1.6	1.3	1.3
46.0	1.6	1.3	1.3	1.6	1.3	1.3	1.6	1.3	1.3	1.6	1.3	1.3
Combination	22210	22111	02221	22220	22211	12221	22221	22212				22222

- Total rated loads shown in the tables mean that the max.load capacity crane can be ensured when crane is set on flat and firm ground.
- Each total rated load in the tables includes weight of the hook and slings.
- In the Boom Length columns, 0 indicates that boom sections are not extended out; 1 indicates that boom sections are extended out 46%; 2 indicates that boom sections are extended out 92%; 3 indicates that boom sections are extended out 100%.

Total Rated Lifting Load

Total rated lifting load for jib												
Jib 28m, fully-extend outrigger 8.7m, counter weight 65t, 360°operation												
Angle (°)	Boom Length 46.1m			Boom Length 50.7m			Boom Length 55.3m			Boom Length 60.0m		
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
Lifting load (t)												
82.0	5.6	3.8	3.2	5.4	3.8	3.0	5.4	3.8	3.0	5.1	3.8	3.0
80.0	5.1	3.8	3.2	5.0	3.6	3.0	5.0	3.6	2.9	4.9	3.6	2.9
78.0	4.9	3.6	3.2	4.7	3.6	2.9	4.7	3.3	2.9	4.5	3.3	2.9
76.0	4.5	3.3	3.0	4.5	3.3	2.9	4.5	3.3	2.9	4.3	3.3	2.9
74.0	4.2	3.3	3.0	4.2	3.2	2.7	4.1	3.2	2.7	4.2	3.2	2.7
72.0	4.1	3.2	3.0	4.1	3.2	2.7	4.0	3.2	2.7	4.0	3.0	2.7
70.0	4.0	3.0	2.9	4.0	3.0	2.7	3.8	3.0	2.7	3.6	3.0	2.7
68.0	3.8	3.0	2.9	3.8	3.0	2.7	3.6	3.0	2.7	3.6	3.0	2.7
66.0	3.6	3.0	2.9	3.6	2.9	2.7	3.6	2.9	2.4	3.3	2.9	2.4
64.0	3.6	2.9	2.9	3.3	2.9	2.4	3.3	2.9	2.4	3.2	2.9	2.4
62.0	3.3	2.9	2.7	3.3	2.9	2.4	3.2	2.9	2.4	3.2	2.7	2.4
60.0	3.2	2.9	2.7	3.2	2.7	2.4	3.2	2.7	2.4	3.0	2.7	2.4
58.0	3.2	2.7	2.7	3.2	2.7	2.4	3.0	2.7	2.4	3.0	2.7	2.4
56.0	3.0	2.7	2.7	3.0	2.7	2.4	3.0	2.7	2.4	2.9	2.7	2.4
54.0	3.0	2.7	2.7	3.0	2.7	2.4	2.9	2.7	2.4	2.9	2.4	2.4
52.0	2.9	2.7	2.7	2.9	2.4	2.4	2.9	2.4	2.3	2.9	2.4	2.3
50.0	2.9	2.4	2.3	2.9	2.4	2.3	2.9	2.4	2.3	2.7	2.4	2.3
48.0	2.9	2.4	2.3	2.9	2.4	2.3	2.7	2.4	2.3	2.7	2.4	2.3
46.0	2.7	2.4	2.3	2.7	2.4	2.3	2.7	2.4	2.3	2.7	2.4	2.3
44.0	2.7	2.4	2.3	2.7	2.4	2.3	2.7	2.4	2.3	2.7	2.4	2.3
42.0	2.7	2.4	2.3	2.7	2.4	2.3	2.7	2.4	2.3	2.7	2.4	2.3
40.0	2.7	2.4	2.3	2.7	2.4	2.3	2.4	2.2	2.3	2.4	2.2	2.3
38.0	2.2	2.2	2.3	2.4	2.2	2.3	2.4	2.2	2.0	2.4	2.2	1.8
36.0	2.2	2.2	1.8	2.4	2.2	1.4	2.4	2.2	1.4	2.4	2.1	1.2
34.0	2.2	2.2	1.0	2.2	2.2		2.2	2.1		2.2	2.1	
32.0	2.2	2.2		2.2	2.1		2.2	2.1		2.2	2.1	
30.0	2.2	2.2		2.2	2.1		2.2	2.1		2.2	2.1	
28.0	2.2	2.2		2.2	2.1		2.2	2.1		2.2	2.1	
26.0	2.2	2.2		2.2	2.1		2.2	2.0		2.1	2.0	
24.0	2.2	2.2		2.2	2.1		2.1	1.8		2.0	1.8	
22.0	2.2	1.8		2.1	1.6		2.1	1.4		1.8	1.3	
20.0	2.1	1.3		2.1	0.9		2.1	0.9		1.8		
18.0	2.1			2.1			2.1			1.7		
16.0	2.1			2.1			2.1			1.7		
Combination	22210	22111	02221	22220	22211	12221	22221	22212		22222		

- Total rated loads shown in the tables mean that the max.load capacity crane can be ensured when crane is set on flat and firm ground.
- Each total rated load in the tables includes weight of the hook and slings.
- In the Boom Length columns, 0 indicates that boom sections are not extended out; 1 indicates that boom sections are extended out 46%; 2 indicates that boom sections are extended out 92%; 3 indicates that boom sections are extended out 100%.

QAY220 Total rated lifting load for jib												
Jib 20m, fully-extend outrigger 8.7m, counter weight 65t, 360°operation												
Angle (°)	Boom Length 46.1m			Boom Length 50.7m			Boom Length 55.3m			Boom Length 60.0m		
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
Lifting load (t)												
82.0	6.7	4.4	3.6	6.7	4.3	3.1	6.7	4.3	3.1	6.7	4.0	3.1
80.0	6.6	4.2	3.4	6.5	4.0	3.1	6.5	3.8	3.1	6.5	3.8	3.1
78.0	6.5	3.8	3.2	6.4	3.8	3.1	6.4	3.7	3.1	6.2	3.7	3.1
76.0	6.0	3.6	3.0	6.0	3.7	3.1	6.0	3.7	2.8	5.7	3.6	2.8
74.0	6.0	3.5	2.9	5.5	3.6	2.8	5.5	3.6	2.8	5.5	3.6	2.8
72.0	5.4	3.4	2.8	5.4	3.4	2.8	5.2	3.4	2.8	5.2	3.4	2.8
70.0	5.4	3.2	2.6	5.0	3.1	2.7	5.0	3.1	2.7	5.0	3.1	2.7
68.0	5.4	3.1	2.7	4.7	3.1	2.7	4.7	3.1	2.7	4.7	3.1	2.7
66.0	5.4	3.1	2.7	4.5	3.1	2.7	4.5	3.1	2.7	4.5	3.1	2.7
64.0	5.1	3.1	2.7	4.4	3.1	2.7	4.4	3.1	2.7	4.4	3.1	2.6
62.0	5.0	2.9	2.6	4.2	2.8	2.6	4.2	2.8	2.6	4.2	2.8	2.6
60.0	4.9	2.6	2.4	4.2	2.8	2.6	4.0	2.8	2.6	3.7	2.8	2.6
58.0	4.7	2.6	2.4	4.0	2.8	2.6	4.0	2.8	2.6	3.7	2.7	2.6
56.0	4.7	2.6	2.4	3.7	2.7	2.6	3.7	2.7	2.6	3.7	2.7	2.6
54.0	4.5	2.6	2.4	3.7	2.7	2.6	3.6	2.7	2.6	3.6	2.7	2.6
52.0	4.2	2.6	2.4	3.6	2.7	2.6	3.6	2.7	2.6	3.6	2.7	2.6
50.0	4.2	2.6	2.4	3.6	2.7	2.6	3.6	2.6	2.3	3.3	2.6	2.3
48.0	4.1	2.4	2.4	3.3	2.6	2.3	3.3	2.6	2.3	3.3	2.6	2.3
46.0	4.1	2.4	2.2	3.3	2.6	2.3	3.3	2.6	2.3	3.3	2.6	2.3
44.0	4.0	2.4	2.2	3.3	2.6	2.3	3.2	2.6	2.3	3.2	2.6	2.3
42.0	4.0	2.4	2.2	3.2	2.6	2.3	3.2	2.6	2.3	3.2	2.6	2.3
40.0	4.0	2.4	2.2	3.2	2.6	2.3	3.2	2.6	2.3	3.2	2.6	2.3
38.0	3.8	2.4	2.2	3.2	2.6	2.3	3.2	2.6	2.3	3.0	2.3	2.2
36.0	3.8	2.4	2.2	3.0	2.6	2.0	3.0	2.3	1.7	3.0	2.3	1.7
34.0	3.8	2.2	1.4	3.0	2.3	1.1	3.0	2.3	1.1	3.0	2.3	0.9
32.0	3.8	2.2		3.0	2.3		2.4	2.3		3.0	2.3	
30.0	3.6	2.2		3.0	2.3		2.4	2.3		3.0	2.3	
28.0	2.7	2.2		2.6	2.3		2.4	2.3		3.0	2.3	
26.0	2.7	2.2		2.6	2.3		2.4	2.3		2.0	2.3	
24.0	2.7	2.2		2.3	2.3		2.2	2.3		2.0	2.3	
22.0	2.4	2.2		2.3	2.2		2.2	2.0		2.0	1.9	
20.0	2.4	1.8		2.3	1.5		2.2	1.4		2.0	1.1	
18.0	2.4	0.9		2.3			2.2			2.0		
16.0	2.4			2.3			2.2			2.0		
Combination	22210	22111	02221	22220	22211	12221	22221	22212		22222		

- Total rated loads shown in the tables mean that the max.load capacity crane can be ensured when crane is set on flat and firm ground.
- Each total rated load in the tables includes weight of the hook and slings.
- In the Boom Length columns, 0 indicates that boom sections are not extended out; 1 indicates that boom sections are extended out 46%; 2 indicates that boom sections are extended out 92%; 3 indicates that boom sections are extended out 100%.

QAY220

All Terrain Crane

Total Rated Lifting Load

QAY220 Total rated lifting load for jib												
Jib 11.55m, fully-extend outrigger 8.7m, counter weight 65t, 360°operation												
Angle (°)	Boom Length 46.1m			Boom Length 50.7m			Boom Length 55.3m			Boom Length 60.0m		
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
Lifting load (t)												
82.0	12.0	8.6	7.1	12.0	8.2	7.0	12.0	8.2	6.7	12.0	8.1	6.7
80.0	12.0	8.5	7.1	12.0	8.1	6.7	12.0	8.1	6.4	12.0	8.1	6.4
78.0	12.0	8.2	7.0	11.8	8.1	6.4	11.8	8.1	6.2	11.8	7.9	6.2
76.0	11.4	8.1	6.8	10.8	7.9	6.2	10.8	7.9	6.2	11.1	7.6	6.2
74.0	10.8	7.9	6.2	10.4	7.7	6.1	10.4	7.7	5.9	10.4	7.3	5.9
72.0	10.0	7.7	6.1	10.0	7.3	5.7	10.0	7.3	5.7	10.0	7.2	5.7
70.0	9.5	7.6	5.7	9.5	7.2	5.7	9.5	7.2	5.4	9.5	6.8	5.4
68.0	9.4	7.3	5.7	9.4	6.8	5.4	9.4	6.8	5.4	9.4	6.3	5.4
66.0	9.0	7.2	5.4	9.0	6.5	5.4	9.0	6.5	5.2	9.0	6.0	5.2
64.0	8.2	6.9	5.4	8.2	6.3	5.2	8.1	6.3	5.2	8.1	5.9	5.2
62.0	8.1	6.7	5.4	8.1	6.0	5.2	7.9	6.0	5.1	7.7	5.8	5.1
60.0	7.9	6.7	5.2	7.7	5.9	4.9	7.6	5.9	4.9	7.3	5.6	4.9
58.0	7.9	6.0	5.2	7.6	5.6	4.9	7.3	5.6	4.9	6.9	5.4	4.9
56.0	7.7	5.9	5.2	7.3	5.4	4.9	7.2	5.4	4.8	6.7	5.1	4.8
54.0	7.3	5.8	5.2	7.2	5.1	4.9	6.9	5.1	4.8	6.7	5.0	4.8
52.0	7.2	5.6	5.1	6.8	5.0	4.8	6.8	5.0	4.7	6.7	4.9	4.7
50.0	6.9	5.6	4.9	6.7	4.9	4.8	6.7	4.9	4.5	6.5	4.7	4.5
48.0	6.8	5.4	4.8	6.5	4.7	4.5	6.5	4.7	4.5	6.5	4.5	4.5
46.0	6.7	5.0	4.8	6.5	4.5	4.3	6.3	4.5	4.3	6.3	4.2	4.3
44.0	6.5	4.7	4.5	6.3	4.2	4.3	6.3	4.2	4.3	6.0	4.2	4.3
42.0	6.5	4.7	4.5	6.3	4.2	4.3	6.0	4.2	4.2	6.0	4.1	4.2
40.0	6.3	4.5	4.2	6.0	4.1	4.2	6.0	4.1	4.0	5.8	4.1	4.0
38.0	6.0	4.2	3.8	5.9	4.1	3.4	5.9	4.1	3.4	5.4	4.0	3.4
36.0	6.0	4.2	3.4	5.9	4.0	3.4	5.9	4.0	2.5	5.1	4.0	2.5
34.0	5.9	4.2	1.5	5.9	4.0	2.2	5.8	4.0	1.7	4.9	4.0	1.7
32.0	5.9	4.2	1.0	5.8	4.0		5.4	4.0		4.5	4.0	
30.0	5.9	4.1		5.8	4.0		5.1	4.0		4.2	3.8	
28.0	5.8	4.1		5.8	4.0		5.0	4.0		4.1	3.8	
26.0	5.8	4.1		5.8	4.0		4.7	4.0		4.0	3.8	
24.0	5.8	4.1		5.6	3.6		4.5	3.6		3.8	3.3	
22.0	5.6	4.1		5.6	2.9		4.5	2.9		3.6	2.7	
20.0	5.6	4.1		5.4	2.3		4.2	2.0		3.4	1.8	
18.0	5.6			5.3	2.0		4.2	1.0		3.3	1.0	
16.0	5.4			5.1			4.1			3.3		
Combination	22210	22111	02221	22220	22211	12221	22221	22212			22222	

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