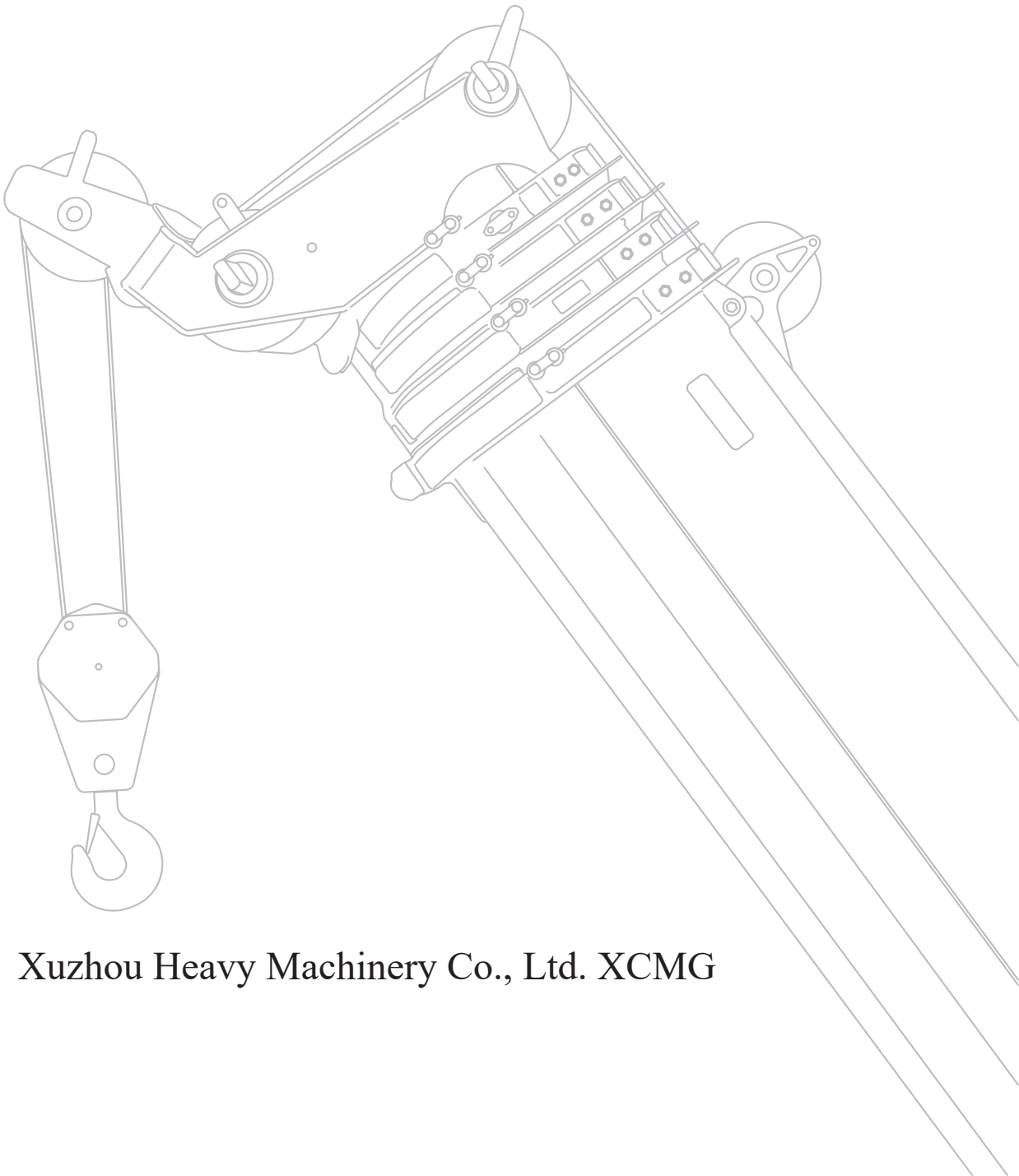
XCA1600 All Terrain Crane
Rated Lifting Capacity Manual



Xuzhou Heavy Machinery Co., Ltd. XCMG

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1 General cautions on operation

1-1 Notes

1. The load capacity values in the tables are stated in t.

2. The working radius is the horizontal gravity center distance of the load from the rotational axis of the crane superstructure measured at the ground. The radius stated is valid under load conditions, i.e. including boom flexure.

3. Boom positions differing from those given in the load capacity tables are not permissible.

4. The boom may only be maneuvered into those areas specified in the load chart, even if no load is suspended, otherwise there is a risk of the crane toppling.

5. The stated load capacities contain the weights of the load bearing, lifting and slinging tackle. The possible weight for the load to be lifted is therefore reduced according to the weights of the afore-mentioned tackle.

6. The working wind force should be below grade 5 (wind speed is 14.1 m/s).

1) When wind speed V ≤ 9m/s, the boom and jib may be operated under all permissible working conditions.

2) When wind speed V ＞ 9m/s, only boom or independent jib head working conditions can be operated, and the boom length should meet the following requirements:

When wind speed 12.8m/ ＜ V ≤ 14.1m/s, the boom length is no more than 20m;

When wind speed 11.1m/s ＜ V ≤ 12.8m/s, the boom length is no more than 30m;

When wind speed 9m/s ＜ V ≤ 11.1m/s, the boom length is no more than 60m;

When boom length is more than 60m, wind speed v ≤ 9m/s.

7. The lifting load with a * followed is available only when additional equipment is used.

1-2 Crane operating mode “Crane supported”

1. Before the crane is raised on the outriggers, the axles must be lowered and locked.

2. The outrigger beams must be extended (to a uniform length on both sides) to the extent stated in the applied load capacity table.

3. The outrigger beams must be locked in place with the pins.

4. It is necessary to place suitable outrigger pads or cribbing under the outrigger floats according to the ground conditions.

5. All wheels must be raised clear of the ground.

6. Use the control unit to raise and level the crane. The level of the crane must also be checked from time to time and adjusted as necessary.

1-3 There is a danger of tipping or a risk of overloading load-bearing components if

1. the turntable is turned away from the forward driving direction of the vehicle. Before turning the superstructure, the crane must be supported on outriggers.

2. the four hydraulic jacks of the crane are not properly supported and in vertical position.

3. cranes are operated on surfaces that can't support the load. Examples include but are not limited to landfills, basements and slopes.

4. the loads and /or the working radii in the load capacity charts corresponding to the boom length are exceeded.

5. the outrigger beams are not extended out to the exact measurement specified in the load charts (on both sides).

6. the outrigger beams are not secured with pins.

7. the hook and load begin swinging due to improper handling.

1-4 Telescopic boom

1. The lifting capacity of the telescopic boom with its extendable telescopic sections is limited. The loads stated in the load capacity tables must not be exceeded.

2. As a general rule, the boom should first be extended to the required length, and then loaded.

3. The weight of lifted load is related to lubrication of bearing base and telescoping length of boom.

4. Even without a load, the telescopic boom may only be moved within the working radius ranges for which values are listed in the load capacity table.

1-5 Winches

1. Main winch

According to design purpose, max. tensile force of main winch wire rope is 184 kN. This rope tension must not be exceeded under any circumstances. Accordingly, the minimum number of hoisting rope lines (rope reeving) should be selected according to the weight of the load to be lifted and as listed on the load charts.

2. Prevention of rope slack formation

When retracting the boom, the hoisting rope must be spooled in, in order to prevent the hook block from contacting the ground and creating rope slack. The speed of the hoisting rope movement should be matched to that used for retraction! The rope guides on the winches must be supervised by a member of the workforce when additional equipment is being mounted!

1-6 Hoisting rope reeving

1. The hoisting rope must be reeved in between boom head and hook block in accordance with the maximum rope tension of the winch and the weight of the load to be lifted.

2. If several hoisting rope lines are reeved in, the efficiency of the hook block is reduced due to pulley friction and rope flexure. In consequence, with a rope tension of e.g. 105 kN, only 983 kN (100.3 t) can be pulled with a 10-fold line reeving, instead of 1050 kN (107 t)

3. The number of hoisting rope lines reeved must be set on the control and display unit of the overload safety device according to the current hoisting rope reeving total.

4. If the hook block is operated with more parts of line than necessary for the respective boom length loads, then the hook block weight will not be sufficient to keep the needed tension on the rope when lowering, which can lead to damage to the rope.

1-7 Overload safety device and limit switch

1. If the permissible load moment is exceeded, the load moment limiter (LMI) shuts down the hoisting and boom lowering, and telescoping movements. It is possible to decrease the load moment by means of movements in the opposite direction (such as retracting boom, boom elevating up and lowering hook block). The LMI must be checked for correct operation on each occasion before operating the crane.

2. The LMI must be set to the current configuration of the crane. The LMI can be set by means of function keys or by entering the corresponding 5-digit code.

3. The overload limit switch is a safety device and must not be used as a shutdown device for operating purposes. The crane operator must assure himself of the weight of a load before attempting to lift it. The fact that the crane is equipped with the overload safety device does not free the operator from responsibility with regard to operating safety.

4. The LMI display unit indicates the working radius, boom length, boom head height, load and percent of the maximum capacity.

5. The hoisting limit or ATB (anti-two block) switch fastened to the boom head or jib head (boom, 1st jib section and 2nd jib section) should prevent the hook block from running into the boom or jib head. The hoisting limit switches must be checked for correct operation on each occasion before the crane is operated.

6. Lowering limiter on the rope winch ensures that 3 wraps of rope remain on the rope drum. When the final rope layer is reached, a visual check is also necessary to ensure that the 3 wraps of rope are maintained. If the hoisting gears have been overturned in the lifting direction, or if the hoisting rope has been changed, then the corresponding limit switch must be reset before resuming operation.

7. The crane operator must check correct operation of the load moment limiter on each occasion before operating the crane. The crane manufacturer will accept no liability for damage to the crane and consequential damage resulting from non-function or dis-activation of the load moment limiter.

1-8 Hook block

1. Capacity, weight of sheave blocks

Load (t)	Pulley quantity	Parts of line	Hook weight (with removable counterweight)
360	12	20	5.7
240	7	15	5.9
150	4	9	5.6
55	1	3	2.5

CAUTION

Note that the insufficient hook weight could damage to the wire rope.

If the hook cannot deliver the sufficient tension to the wire rope, the wire rope may be disarranged during the hook lifting and lowering, damaging to the wire rope.

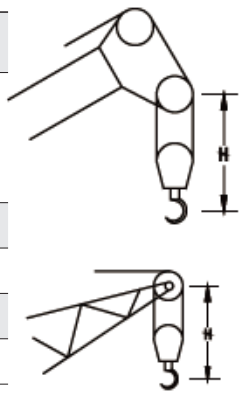
The additional device may be attached to the hook if needed. The additional load should be removed in case of any problems occurring during the installation and assembling.

2. Gap between hook block and sheave block

Lifting height has a relationship with the gap between hook block and sheave block. The lifting height shall be calculated by reducing the distance from hook center to single top center.

The distance can be obtained from the table below.

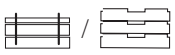
Load [t]	Distance [H]	
	Sheave block to telescoping boom (boom) [m]	Sheave block to jib tip (wind power jib) [m]
360	5.8~4.3	5.8 ~ 4.3
240	5.4~3.9	5.4 ~ 3.9
150	5.1~3.6	5.1 ~ 3.6
55	4.9 ~ 3.4	4.9 ~ 3.4

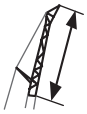


3. The scheme of hook configuration is shown in the following table, parts of line n is corresponding to max. lifting load of current boom length, is lifting load is smaller than value in the table, it can be calculated according to the formula n=-log(1-0.001568Q)/0.00877 (where Q is lifting capacity, unit is t):

No.	Type of hook block	Dead weight of hook block (t)	Max. parts of line (n)	Remark
1	Double-hook	5.7	20	360 t hook block
2	Double-hook	5.9	15	240 t hook block
3	Double-hook	5.6	9	150 t hook block
4	Double-hook	2.5	3	55 t hook block

1-9 Symbol explanation

No.	Symbol	Explanation	Remark
1		Working radius (m)	Select the proper working radius according to the requirements of actual working condition
2		Boom length (m)	Select the proper boom length according to the requirements of actual working condition
3		Percentage of boom section extended /The telescoping code of each boom section	Indication 0 = completely retracted, 100 = completely extended.
4		Boom angle (°)	Select the proper boom angle according to the requirements of actual working condition
5		Min. boom angle (°)	The min. angle of boom in actual working condition
6		Max. boom angle (°)	The max. angle of boom in actual working condition
7		Lifting load (For main boom)	
8		Lifting height (For main boom)	Select the proper lifting height according to the requirements of actual working condition
9		Fully-extended outriggers	Select outrigger length according to the requirements of actual working condition. The outrigger beams must be extended to the positions stated in the applied load table.
10		Half-extended outriggers	Select outrigger length according to the requirements of actual working condition. The outrigger beams must be extended to the positions stated in the applied load table.
11		Counterweight	Select counterweight slabs according to the requirements of actual working condition. Before performing erection of counterweight, make sure that outrigger span conforms to the requirements in the load charts.
12		360° operation of the boom	360° operation of the boom is available in the actual working condition
13		With 5th jack down, 360° operation of the boom	With 5th jack down, 360° operation of the boom is available in actual working condition
14		Without 5th jack down, boom over side or over rear	Without 5th jack down, boom is over side or over rear in actual working condition

15	n	Parts of line	Select the proper parts of line according to the requirements of actual working condition
16		Hook block	Select the proper hook block according to the requirements of actual working condition
17		Wind speed (m/s)	Max. instantaneous wind speed permissible for lifting operation
18		Jib length (m)	Select the proper jib length according the requirements of actual working condition
19		Jib offset angle (°)	Select the proper jib offset angle according to the requirements of actual working condition
20		Lifting load (For jib)	 for lifting load in kg
21		Radius (For jib)	Select the proper working radius according to the requirements of actual working condition
22		Lifting height (For jib)	Select the proper lifting height according to the requirements of actual working condition
23		Super lifting device	 It means that the unfolding angle of a super lifting arm is 15° .
24		Luffing jib length (m)	——
25		Length of independent jib head (m)	——
26		Boom extension	——
27		Wind power jib length (m)	Select the proper wind power jib length according to the requirements of actual working condition
28	V	Length of boom extension (m) (Luffing jib working condition)	——

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2 XCA1600 All Terrain Crane Lifting Height Chart

2-1 Lifting height chart for boom

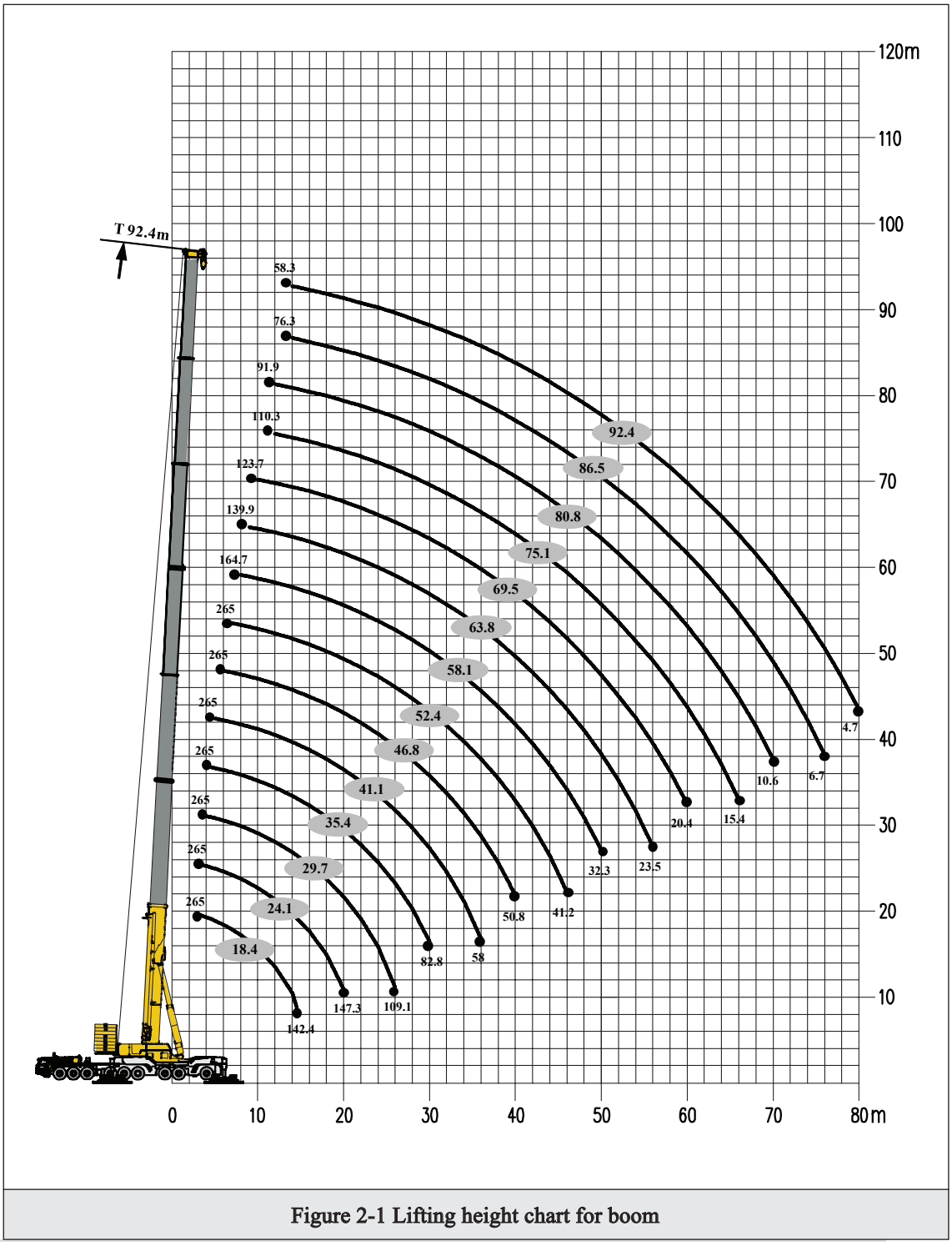


Figure 2-1 Lifting height chart for boom

2-2 Lifting height chart for boom+ super lifting device

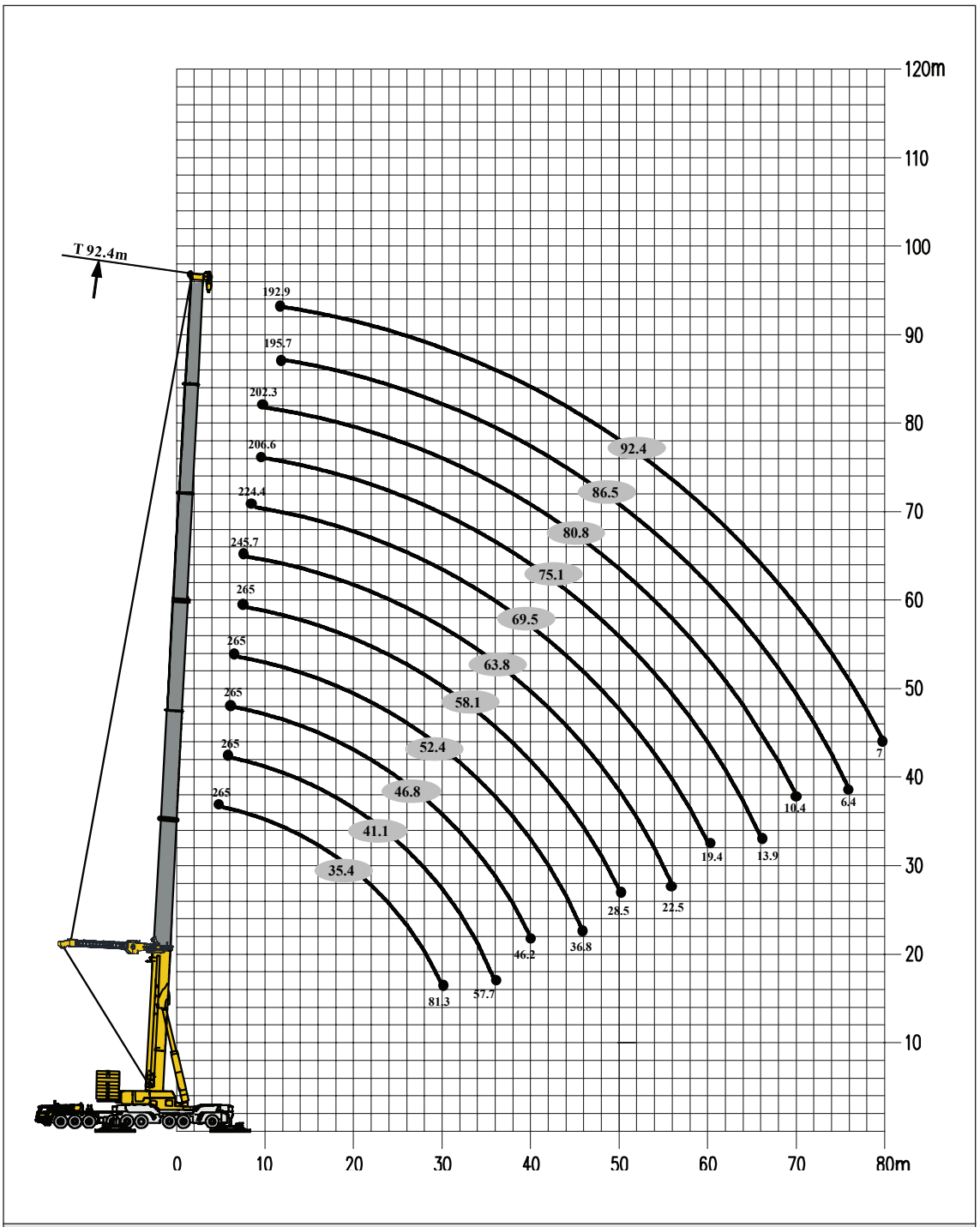


Figure 2-2 Lifting height chart for boom+ super lifting device

2-3 Lifting height chart for boom+ super lifting device+wind power jib

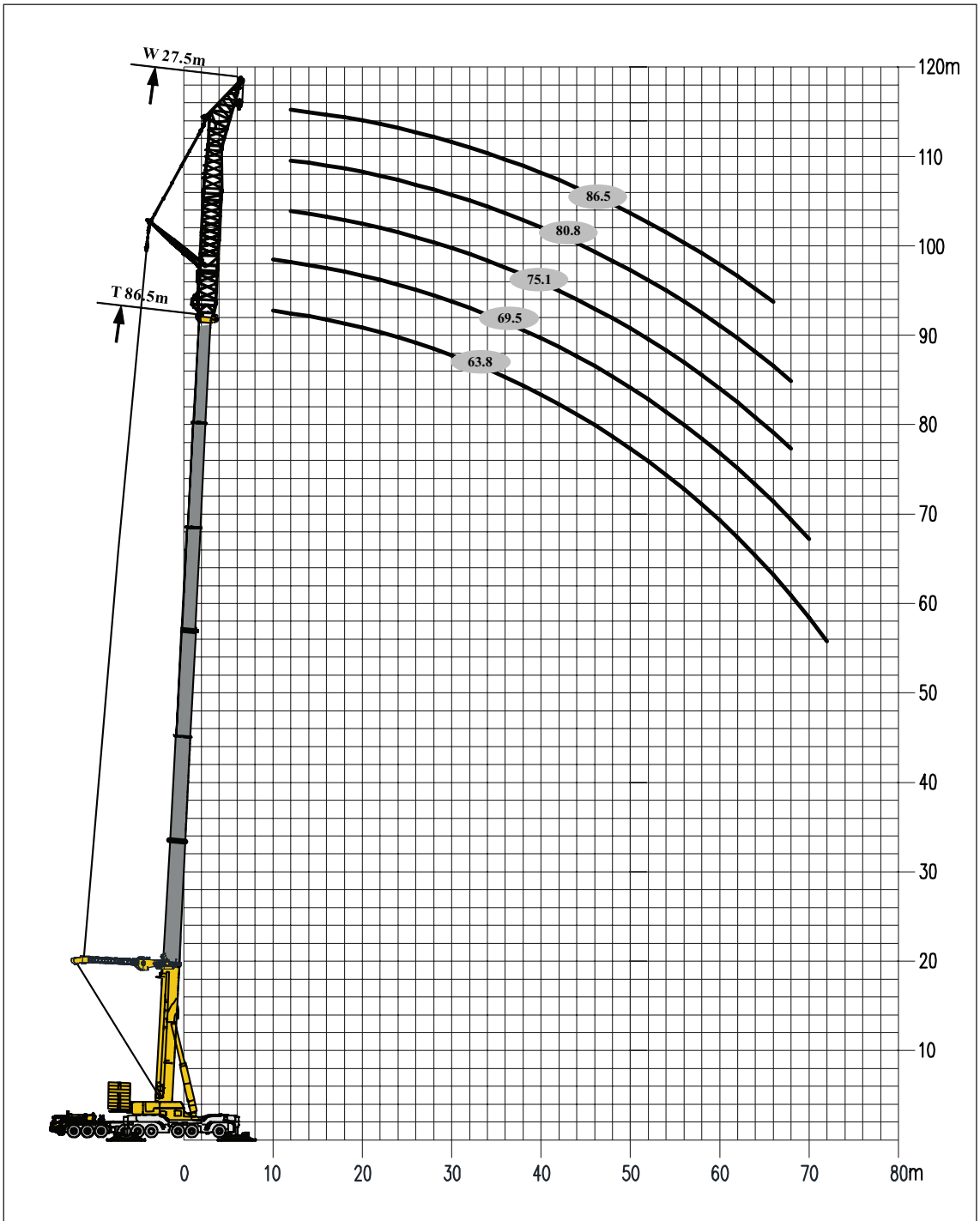


Figure 2-3 Lifting height chart 1 for boom+ super lifting device+wind power jib

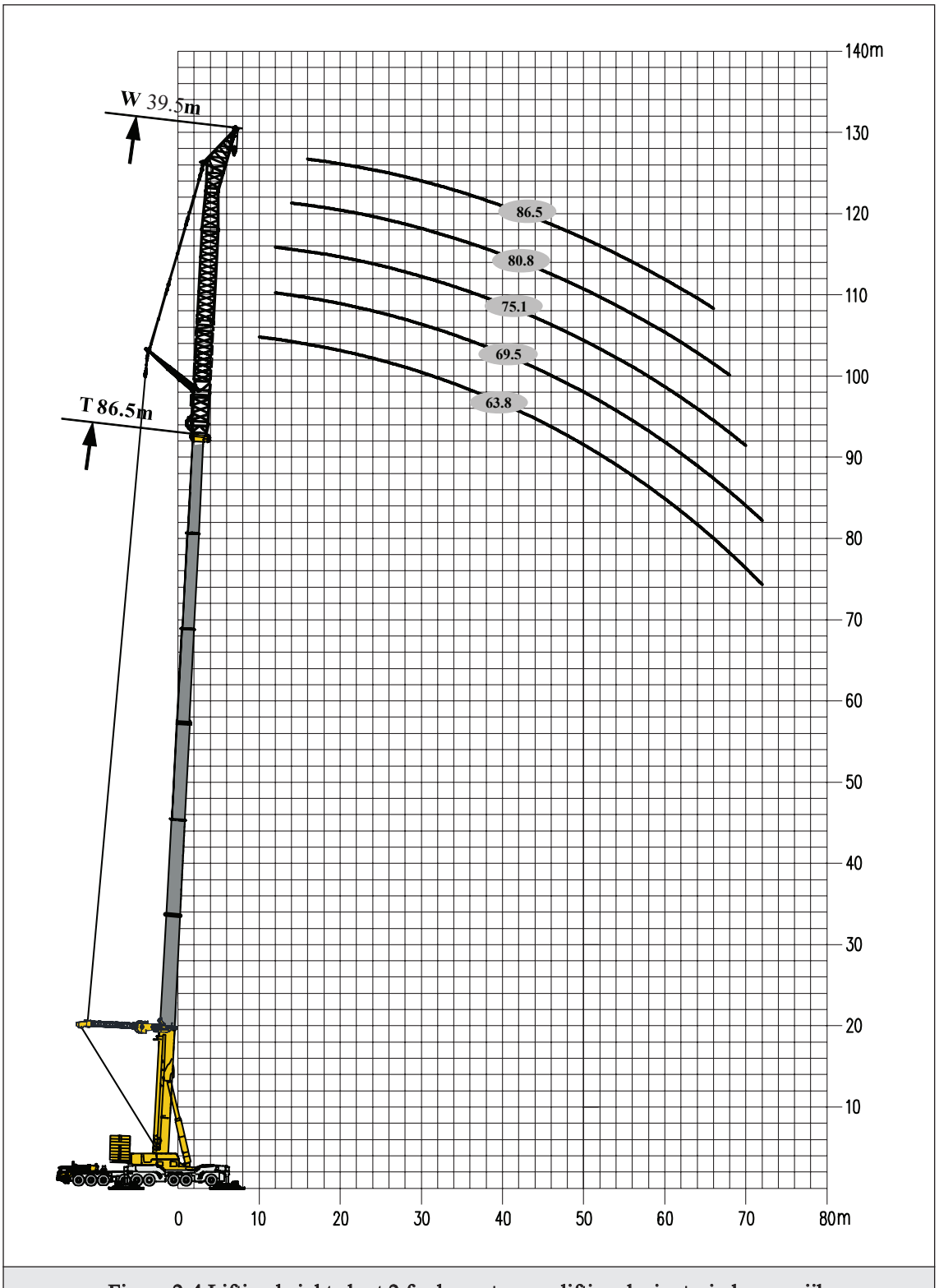


Figure 2-4 Lifting height chart 2 for boom+ super lifting device+wind power jib

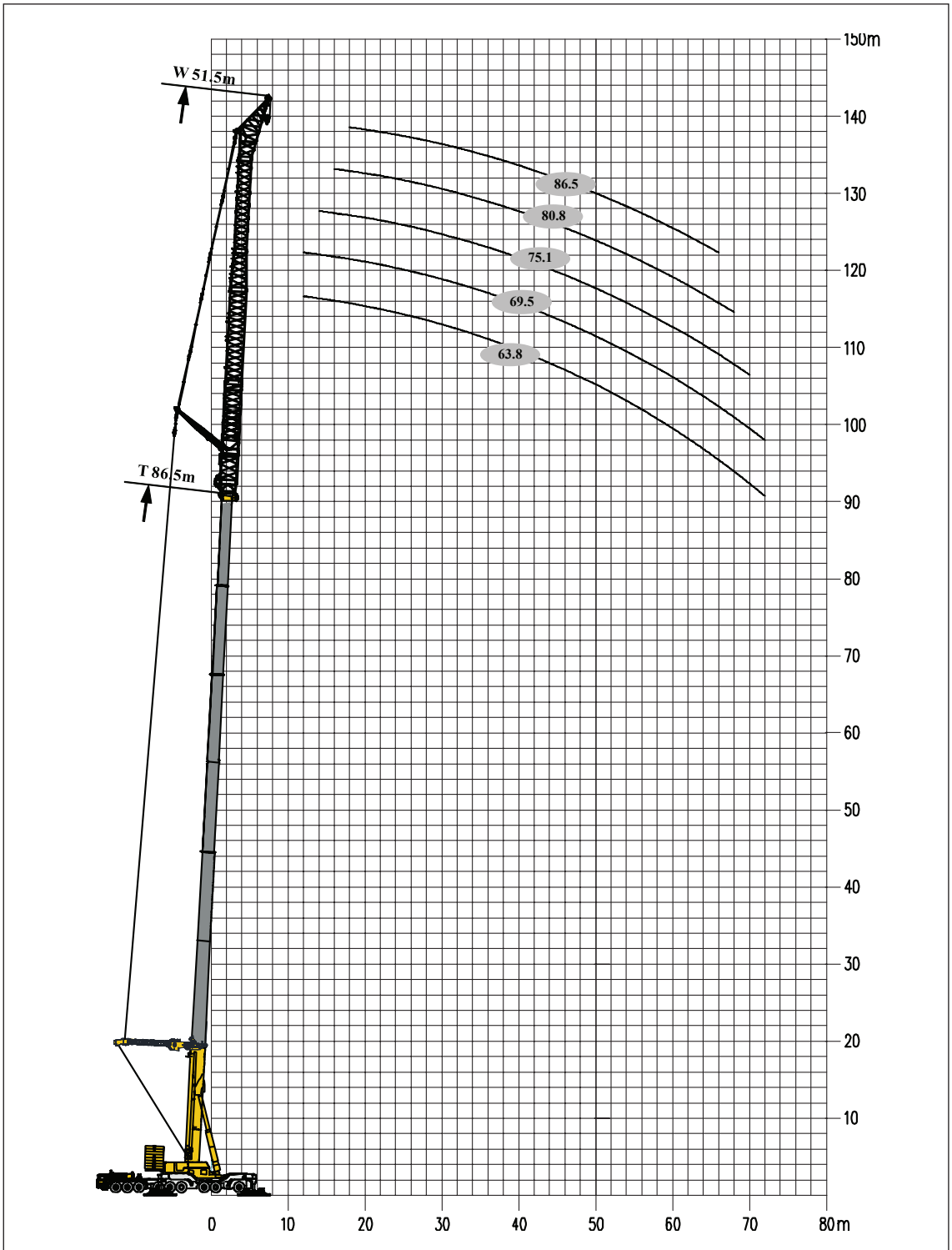


Figure 2-5 Lifting height chart 3 for boom+ super lifting device+wind power jib

2-4 Lifting height chart for boom+ super lifting device+luffing jib

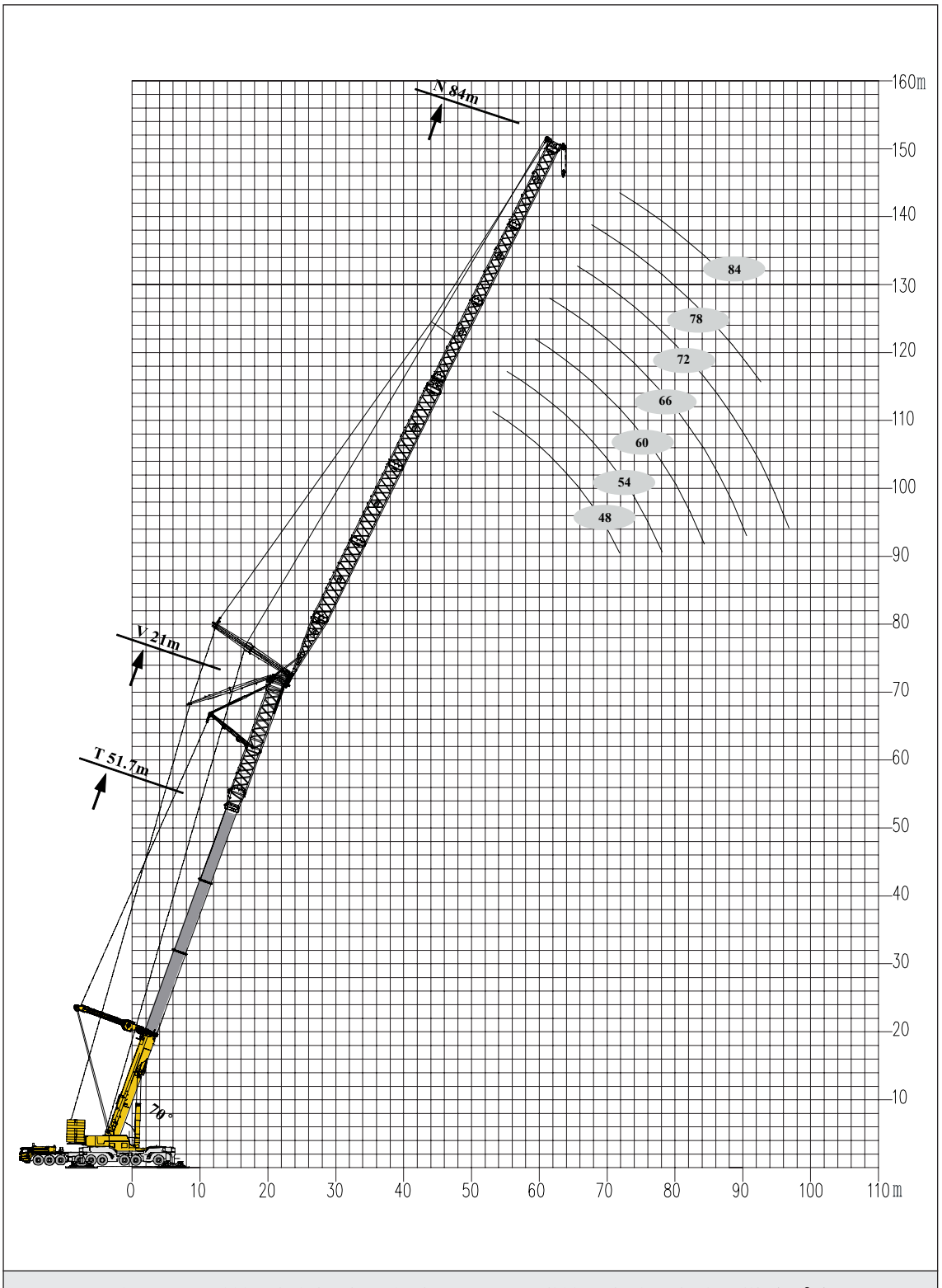


Figure 2-6 Lifting height chart for boom+ super lifting device+luffing jib (70°)

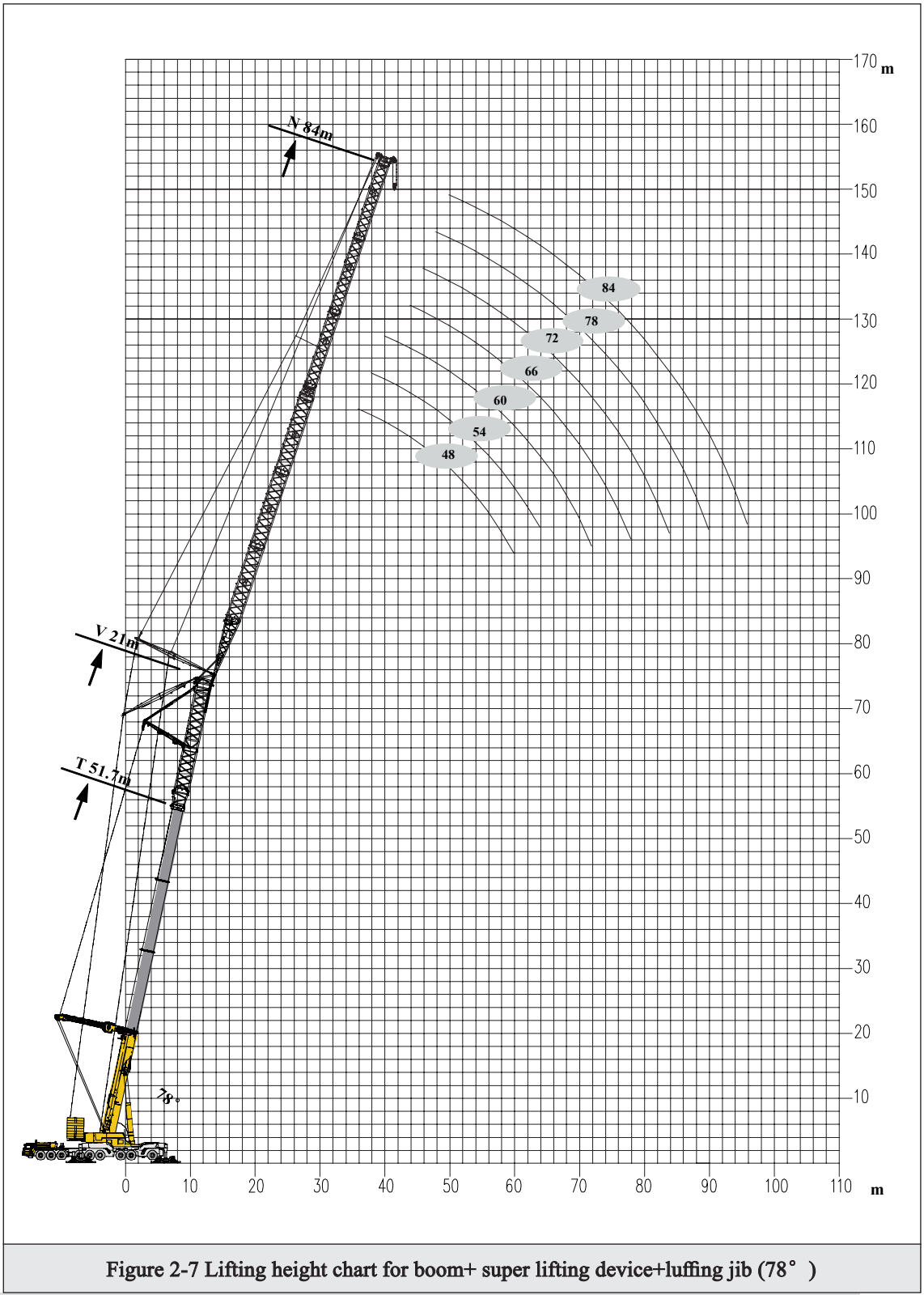


Figure 2-7 Lifting height chart for boom+ super lifting device+luffing jib (78°)

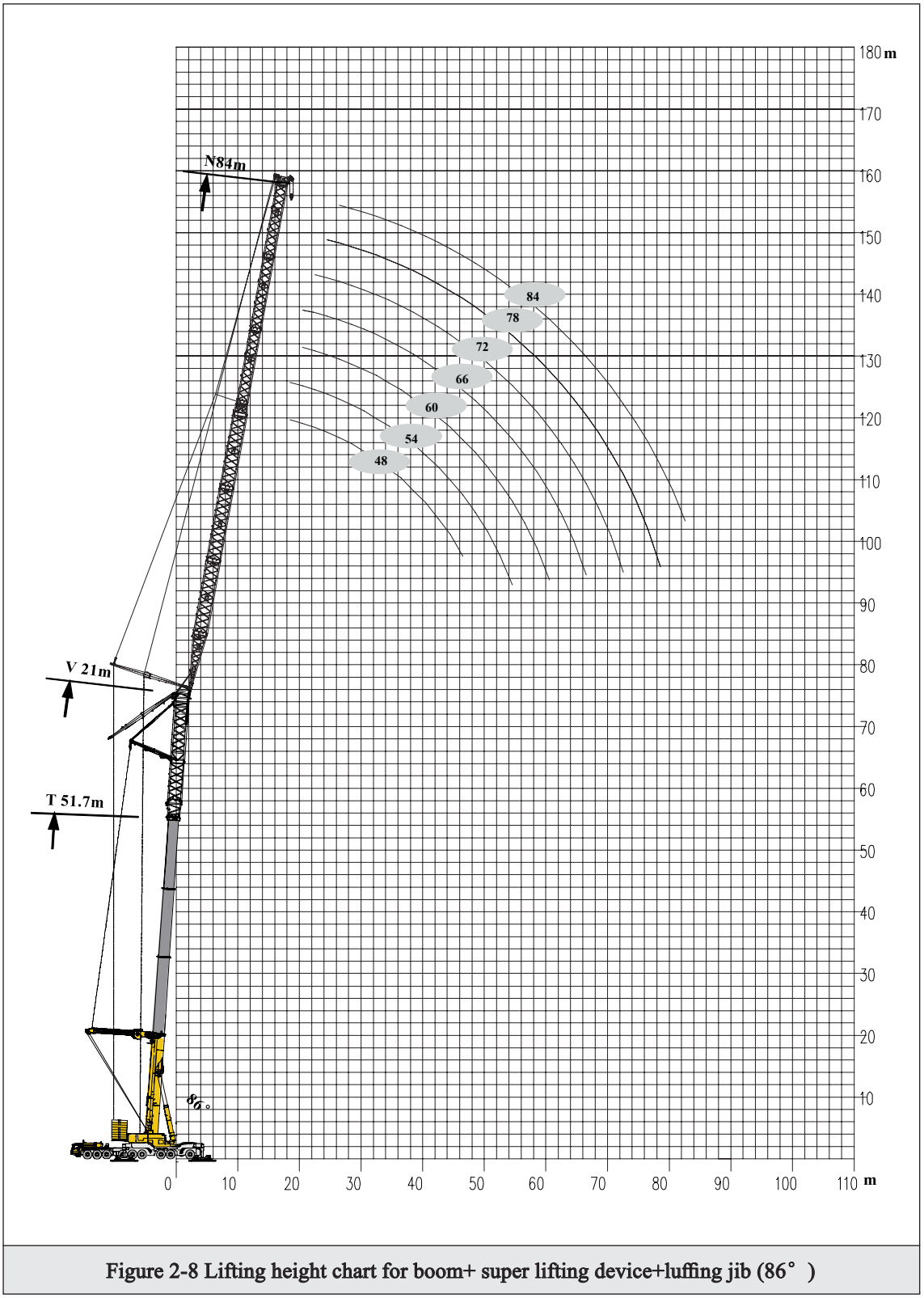
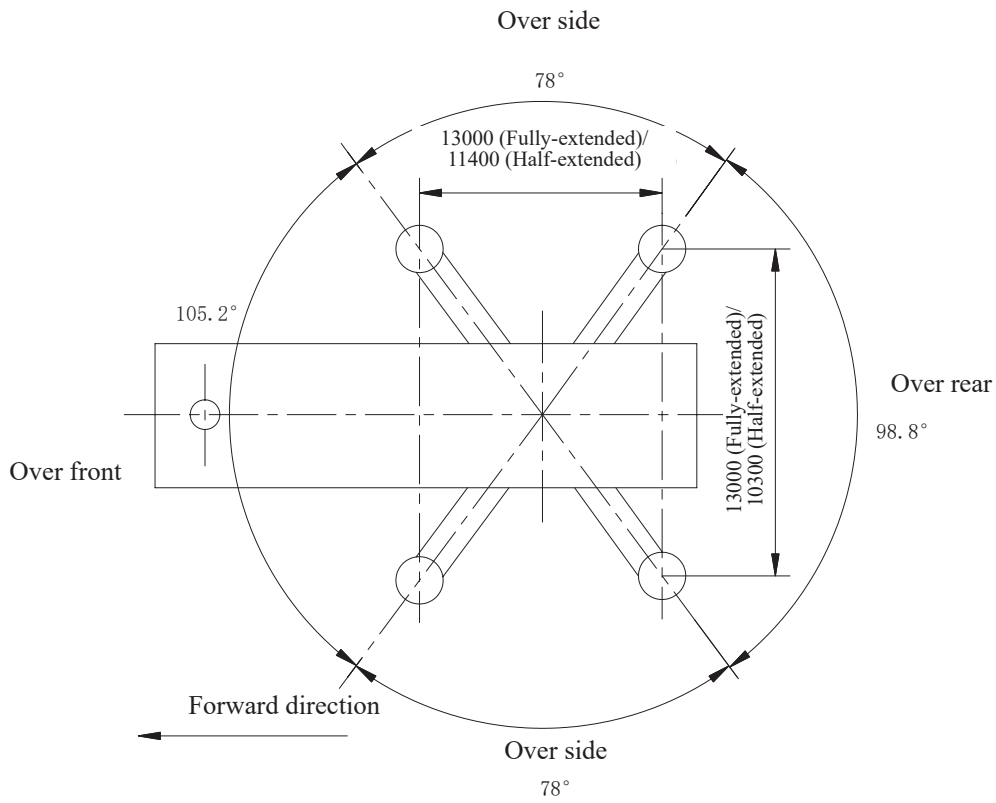


Figure 2-8 Lifting height chart for boom+ super lifting device+luffing jib (86°)

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3 XCA1600 All Terrain Crane Working Areas



Working Areas of XCA1600

Figure 3-1 All Terrain Crane Working Areas

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4 Rated Lifting Load Tables for Boom

4-1 On fully extended outriggers

4-1-1 On fully extended outriggers, with counterweight of 195t

m	18.4m~63.8m			195t			13m×13m			360°							m
	18.4*	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8	
2	1600**																	2
2.5	320.0																	2.5
3	320.0	265.0																3
3.5	320.0	265.0	265.0	265.0														3.5
4	320.0	265.0	265.0	265.0	265.0	265.0												4
4.5	320.0	265.0	265.0	265.0	259.7	259.7	265.0	265.0										4.5
5	320.0	265.0	265.0	265.0	254.4	254.4	251.8	259.7	265.0	265.0								5
6	320.0	265.0	265.0	265.0	249.1	249.1	238.5	254.4	259.7	259.7	265.0	265.0						6
7	320.0	265.0	265.0	265.0	243.8	243.8	225.3	249.1	254.4	254.4	259.7	265.0	265.0	170.4				7
8	320.0	265.0	265.0	265.0	238.5	238.5	220.0	243.8	249.1	249.1	254.4	265.0	259.7	161.2	164.7			8
9	320.0	265.0	265.0	265.0	227.9	238.5	207.7	238.5	243.8	243.8	247.4	260.3	245.3	152.1	150.6	126.4		9
10	320.0	265.0	261.3	263.2	211.7	236.8	192.2	230.9	224.4	224.9	226.4	243.2	225.0	144.3	147.6	136.8	120.5	10
12	245.0	238.5	236.6	229.9	185.3	208.6	168.6	203.5	195.6	202.8	195.8	214.7	194.9	129.8	134.7	117.1	109.4	12
14	218.0	210.9	210.9	203.3	164.6	185.5	149.3	181.3	173.1	184.9	175.3	191.0	170.1	118.5	123.5	101.7	100.6	14
16	142.4	142.4	186.2	177.7	148.1	164.2	133.5	160.7	154.8	166.0	154.8	167.2	153.0	109.0	114.1	88.4	91.5	16
18			164.4	155.8	137.5	148.6	120.9	141.9	139.9	149.9	136.8	148.2	138.4	101.1	106.1	79.8	84.2	18
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	240t	150t	t
n	20	17	17	17	17	17	17	17	17	17	17	17	17	11	10	10	8	n
%	000000	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	111111	011112	111112	211111	111122	%
m/s	14.1m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s	m/s

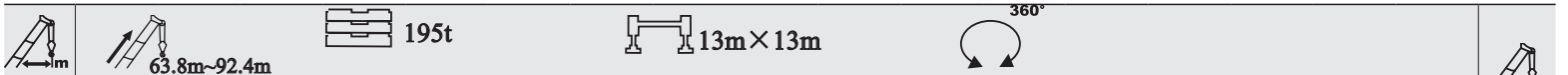
*Over rear **Capacity class

m	18.4m~63.8m			195t			13m×13m				360°						m
	18.4*	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8	
20			147.3	137.8	128.9	134.8	113.3	129.4	126.5	136.8	123.1	132.1	93.3	126.8	98.9	72.7	78.3	20
22					121.2	124.0	106.8	118.8	114.6	123.5	111.2	118.8	87.1	116.4	92.5	66.3	72.6	22
24					114.8	114.5	101.1	110.4	103.5	111.2	103.1	107.4	82.6	108.3	87.0	60.5	68.3	24
26					109.1	105.6	95.3	102.4	94.9	101.7	96.4	97.9	77.4	98.8	82.3	55.9	64.0	26
28							88.7	93.7	87.2	92.7	90.3	89.3	73.0	90.3	79.7	53.3	59.9	28
30							80.5	82.8	78.8	81.9	84.4	79.6	68.6	82.7	76.8	50.9	56.6	30
32									70.5	72.7	76.9	70.5	65.3	74.4	73.9	48.6	53.3	32
34									63.3	64.8	69.0	62.7	63.0	66.6	68.3	46.7	50.4	34
36									57.1	58.0	62.2	55.9	60.1	59.8	62.8	45.0	48.2	36
38											56.2	49.9	55.8	53.8	56.8	42.5	45.9	38
40											50.8	44.7	51.8	48.5	51.6	39.1	43.7	40
42													48.3	43.8	46.9	36.1	41.4	42
44													45.0	39.6	42.7	33.2	39.8	44
46													41.2	35.8	38.9	30.6	36.6	46
48															35.4	27.5	33.5	48
50															32.3	24.7	30.7	50
t		360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t	t
n	20	17	17	17	17	17	17	17	17	17	17	17	11	17	10	10	8	n
%		000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122	%
m/s		14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s	m/s



m	18.4m~63.8m	195t	13m×13m	360°													m
	18.4*	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8	
52																	28.1	52
54																	25.7	54
56																	23.5	56
58																		58
60																		60
62																		62
64																		64
66																		66
68																		68
70																		70
72																		72
74																		74
76																		76
78																		78
80																		80
t		360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t	t
n	20	17	17	17	17	17	17	17	17	17	17	17	11	17	10	10	8	n
%		000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122	%
m/s		14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s	m/s

m	63.8m~92.4m			195t			13m×13m		360°								m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4								
2																	2
2.5																	2.5
3																	3
3.5																	3.5
4																	4
4.5																	4.5
5																	5
6																	6
7																	7
8																	8
9	139.9																9
10	131.1	105.0	123.7														10
12	116.2	95.3	110.4	89.4	110.3	85.4	91.9										12
14	103.2	86.5	99.1	81.5	97.9	79.4	84.0	76.3	58.3								14
16	93.3	79.4	89.0	75.4	86.7	73.5	76.4	70.0	56.5								16
18	84.0	73.3	79.7	68.6	77.2	68.4	70.4	64.4	54.0								18
t	240t	150t	150t	150t	150t	150t	150t	150t	150t								t
n	9	7	8	6	7	5	6	5	4								n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333								%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s								m/s

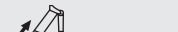


m	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4									m
20	75.3	68.0	71.5	63.5	68.9	63.3	63.5	59.3	50.6									20
22	67.5	63.5	64.4	58.4	61.9	58.6	57.1	54.2	47.9									22
24	61.4	59.2	58.1	54.2	56.9	53.8	52.1	49.3	44.1									24
26	55.6	54.7	52.8	51.0	52.1	49.6	47.7	45.2	41.0									26
28	51.1	51.2	48.0	47.7	48.0	45.2	43.9	41.9	38.1									28
30	46.7	48.9	43.6	44.3	44.9	40.6	40.5	38.5	35.6									30
32	43.2	45.7	40.5	41.2	40.8	37.0	37.2	35.5	33.6									32
34	40.4	43.4	37.7	39.0	38.5	35.9	34.9	33.1	31.7									34
36	37.6	41.2	35.2	36.8	35.0	34.7	32.7	30.9	29.7									36
38	35.1	38.9	33.3	34.5	32.6	33.4	30.9	29.3	27.8									38
40	33.7	36.7	30.5	32.8	29.8	31.9	28.9	28.0	26.2									40
42	31.9	35.5	28.5	31.1	27.5	29.0	27.0	26.1	24.7									42
44	29.0	33.4	26.6	29.4	25.6	28.3	26.0	24.6	23.7									44
46	26.5	32.0	25.2	28.0	24.1	26.0	23.7	23.1	22.0									46
48	24.1	30.0	22.9	26.6	22.6	24.3	22.0	22.2	20.7									48
50	21.6	28.8	20.6	25.0	21.3	22.1	20.9	20.7	19.5									50
t	240t	150t	150t	150t	150t	150t	150t	150t	150t									t
n	9	7	8	6	7	5	6	5	4									n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333									%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s									m/s

m	63.8m~92.4m			195t				13m×13m		360°								m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4									
52	19.3	27.7	19.7	23.7	19.4	20.6	19.5	19.7	18.3									52
54	17.3	26.4	18.7	22.6	17.6	19.5	18.5	18.3	17.1									54
56	15.3	24.2	17.7	22.0	16.0	18.5	16.8	17.3	16.5									56
58		22.2	16.6	20.8	14.5	17.4	15.2	16.3	15.5									58
60		20.4	11.5	19.7	13.3	16.6	13.6	15.0	14.5									60
62				18.5	12.0	15.7	12.2	13.6	13.4									62
64				16.9	10.3	14.3	10.9	12.3	12.5									64
66				15.4	9.0	13.0	9.6	11.3	11.4									66
68						11.7	8.5	10.4	10.4									68
70						10.6	7.4	9.5	9.3									70
72								8.6	8.4									72
74								7.7	7.4									74
76								6.7	6.4									76
78									5.5									78
80									4.7									80
t	240t	150t	150t	150t	150t	150t	150t	150t	150t									t
n	9	7	8	6	7	5	6	5	4									n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333									%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s									m/s

4-1-2 On fully extended outriggers, with counterweight of 175t



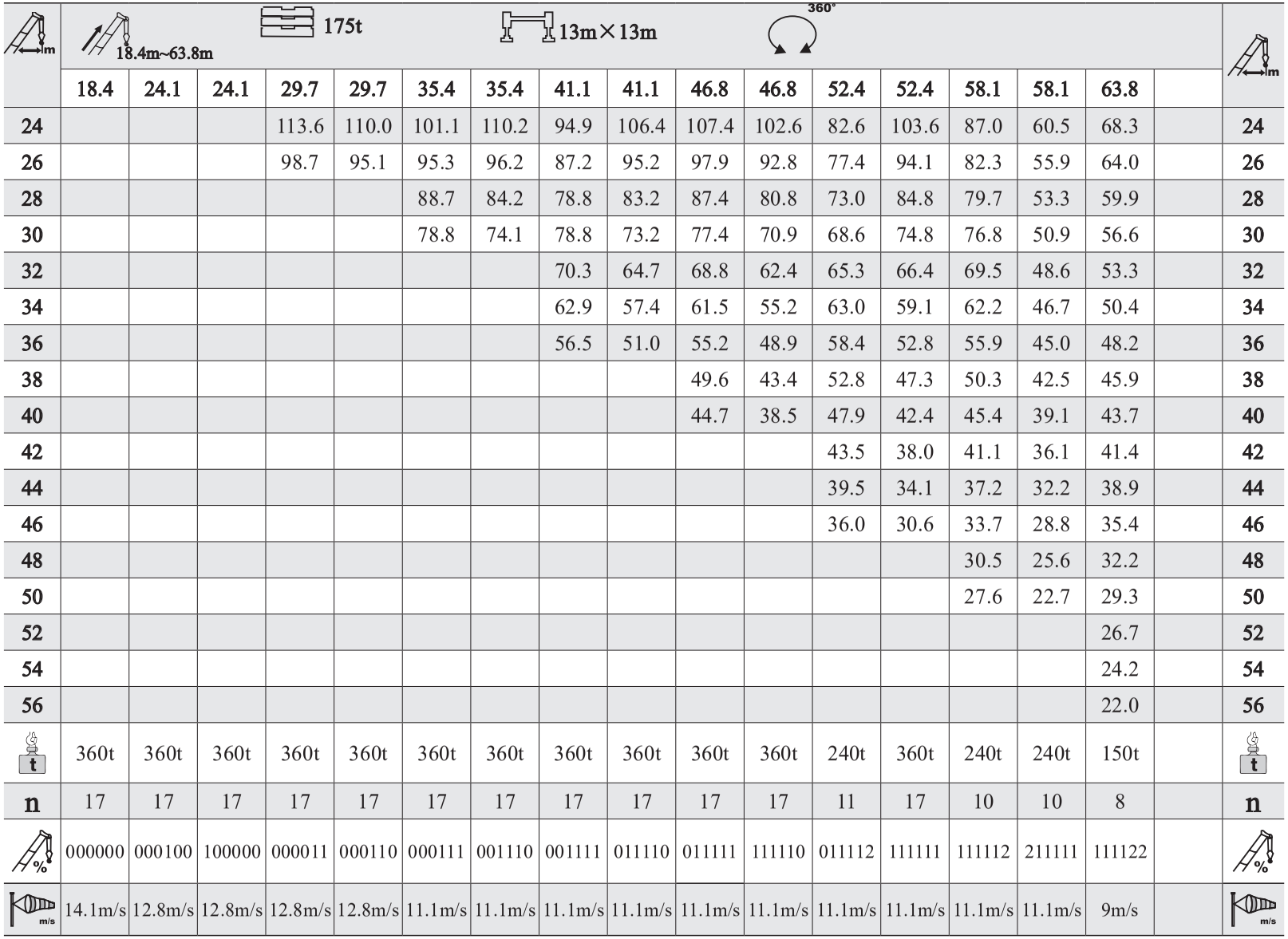



175t

13m×13m




	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8		
3	265.0																	3
3.5	265.0	265.0	265.0															3.5
4	265.0	265.0	265.0	265.0	265.0													4
4.5	265.0	265.0	265.0	259.7	259.7	265.0	265.0	265.0										4.5
5	265.0	265.0	265.0	254.4	254.4	251.8	259.7	259.7	265.0									5
6	265.0	265.0	265.0	249.1	249.1	238.5	254.4	254.4	259.7	265.0	265.0							6
7	265.0	265.0	265.0	243.8	243.8	225.3	249.1	249.1	254.4	265.0	265.0	170.4	265.0					7
8	265.0	265.0	265.0	238.5	238.5	220.0	243.8	243.8	249.1	265.0	265.0	161.2	259.7	163.9	164.7			8
9	265.0	265.0	265.0	227.9	238.5	207.7	238.5	224.4	243.8	260.3	257.5	152.1	245.3	155.3	150.6	126.4		9
10	265.0	261.3	260.3	211.7	236.8	192.2	230.9	195.6	224.9	243.2	240.4	144.3	225.0	147.6	136.8	120.5		10
12	235.6	234.7	228.0	185.3	208.6	168.6	203.5	173.1	202.8	215.7	211.9	129.8	194.9	134.7	117.1	109.4		12
14	205.2	206.2	196.7	164.6	185.5	149.3	181.3	154.8	184.9	188.1	184.3	118.5	170.1	123.5	101.7	100.6		14
16	142.4	179.6	170.1	148.1	164.2	133.5	160.7	139.9	166.0	165.3	160.6	109.0	153.0	114.1	88.4	91.5		16
18		157.7	149.2	137.5	148.6	120.9	141.9	126.5	147.3	146.3	142.5	101.1	138.4	106.1	79.8	84.2		18
20		140.6	132.1	128.9	134.8	113.3	129.4	114.6	131.1	131.1	126.4	93.3	126.4	98.9	72.7	78.3		20
22				121.2	124.0	106.8	118.8	103.5	117.8	117.8	114.0	87.1	114.0	92.5	66.3	72.6		22
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t		t
n	17	17	17	17	17	17	17	17	17	17	17	11	17	10	10	8		n
%	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122		%
m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s		m/s



m	18.4m~63.8m	175t	13m×13m	360°	m
	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8		
24				113.6	110.0	101.1	110.2	94.9	106.4	107.4	102.6	82.6	103.6	87.0	60.5	68.3		24
26				98.7	95.1	95.3	96.2	87.2	95.2	97.9	92.8	77.4	94.1	82.3	55.9	64.0		26
28						88.7	84.2	78.8	83.2	87.4	80.8	73.0	84.8	79.7	53.3	59.9		28
30						78.8	74.1	78.8	73.2	77.4	70.9	68.6	74.8	76.8	50.9	56.6		30
32								70.3	64.7	68.8	62.4	65.3	66.4	69.5	48.6	53.3		32
34								62.9	57.4	61.5	55.2	63.0	59.1	62.2	46.7	50.4		34
36								56.5	51.0	55.2	48.9	58.4	52.8	55.9	45.0	48.2		36
38										49.6	43.4	52.8	47.3	50.3	42.5	45.9		38
40										44.7	38.5	47.9	42.4	45.4	39.1	43.7		40
42												43.5	38.0	41.1	36.1	41.4		42
44												39.5	34.1	37.2	32.2	38.9		44
46												36.0	30.6	33.7	28.8	35.4		46
48														30.5	25.6	32.2		48
50														27.6	22.7	29.3		50
52																26.7		52
54																24.2		54
56																22.0		56
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t		t
n	17	17	17	17	17	17	17	17	17	17	17	11	17	10	10	8		n
%	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122		%
m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s		m/s

m	63.8m~92.4m			175t			13m×13m			360°								m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4									
3																		3
3.5																		3.5
4																		4
4.5																		4.5
5																		5
6																		6
7																		7
8																		8
9	139.9																	9
10	131.1	105.0	123.7															10
12	116.2	95.3	110.4	89.4	110.3	85.4	91.9											12
14	103.2	86.5	99.1	81.5	97.9	79.4	84.0	76.3	58.3									14
16	93.3	79.4	89.0	75.4	86.7	73.5	76.4	70.0	56.5									16
18	84.0	73.3	79.7	68.6	77.2	68.4	70.4	64.4	54.0									18
20	75.3	68.0	71.5	63.5	68.9	63.3	63.5	59.3	50.6									20
22	67.5	63.5	64.4	58.4	61.9	58.6	57.1	54.2	47.9									22
t	240t	150t	150t	150t	150t	150t	150t	150t	150t									t
n	9	7	8	6	7	5	6	5	4									n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333									%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s									m/s

m	63.8m~92.4m			175t			13m×13m			360°								m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4									
24	61.4	59.2	58.1	54.2	56.9	53.8	52.1	49.3	44.1									24
26	55.6	54.7	52.8	51.0	52.1	49.6	47.7	45.2	41.0									26
28	51.1	51.2	48.0	47.7	48.0	45.2	43.9	41.9	38.1									28
30	46.7	48.9	43.6	44.3	44.9	40.6	40.5	38.5	35.6									30
32	43.2	45.7	40.5	41.2	40.8	37.0	37.2	35.5	33.6									32
34	40.4	43.4	37.7	39.0	38.5	35.9	34.9	33.1	31.7									34
36	37.6	41.2	35.2	36.8	35.0	34.7	32.7	30.9	29.7									36
38	35.1	38.9	33.3	34.5	32.6	33.4	30.9	29.3	27.8									38
40	33.7	36.7	30.5	32.8	29.8	31.9	28.9	28.0	26.2									40
42	31.9	35.5	28.5	31.1	27.5	29.0	27.0	26.1	24.7									42
44	29.0	33.4	26.6	29.4	25.6	28.3	26.0	24.6	23.7									44
46	26.5	32.0	25.2	28.0	24.1	26.0	23.7	23.1	22.0									46
48	24.1	30.0	22.9	26.6	22.6	24.3	22.0	22.2	20.7									48
50	21.6	28.8	20.6	25.0	21.3	22.1	20.9	20.7	19.5									50
52	19.3	27.4	19.7	23.7	19.4	20.6	19.5	19.7	18.3									52
54	17.2	25.0	17.7	22.6	17.6	19.5	18.5	18.3	17.1									54
t	240t	150t	150t	150t	150t	150t	150t	150t	150t									t
n	9	7	8	6	7	5	6	5	4									n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333									%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s									m/s

m	63.8m~92.4m			175t			13m×13m		360°								m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4								
56	15.0	22.7	15.5	22.0	16.0	18.5	16.8	17.3	16.5								56
58		20.7	13.4	20.5	14.5	17.4	15.2	16.3	15.5								58
60		18.8	11.5	18.6	12.7	16.6	13.6	15.0	14.5								60
62				16.8	11.0	15.7	12.2	13.6	13.4								62
64				15.1	9.3	14.3	10.9	12.3	12.5								64
66				13.6	7.8	12.7	9.4	11.2	11.4								66
68						11.3	7.9	9.8	10.1								68
70						9.9	6.6	8.5	8.7								70
72								7.2	7.5								72
74								6.0	6.3								74
76								4.9	5.1								76
78									4.1								78
80									3.1								80
t	240t	150t	150t	150t	150t	150t	150t	150t	150t								t
n	9	7	8	6	7	5	6	5	4								n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333								%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s								m/s

4-1-3 On fully extended outriggers, with counterweight of 155t

m	18.4m~63.8m	155t	13m×13m	360°	m
	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8		
3	265.0																	3
3.5	265.0	265.0	265.0															3.5
4	265.0	265.0	265.0	265.0	265.0													4
4.5	265.0	265.0	265.0	259.7	259.7	265.0	265.0											4.5
5	265.0	265.0	265.0	254.4	254.4	251.8	259.7	265.0	265.0									5
6	265.0	265.0	265.0	249.1	249.1	238.5	254.4	259.7	259.7	265.0	265.0							6
7	265.0	265.0	265.0	243.8	243.8	225.3	249.1	254.4	254.4	259.7	265.0	170.4	265.0					7
8	265.0	265.0	265.0	238.5	238.5	220.0	243.8	249.1	249.1	254.4	265.0	161.2	259.7	163.9	164.7			8
9	265.0	265.0	265.0	227.9	238.5	207.7	238.5	243.8	243.8	247.4	254.6	152.1	245.3	155.3	150.6	126.4		9
10	265.0	261.3	257.5	211.7	236.8	192.2	230.9	224.4	224.9	226.4	237.5	144.3	225.0	147.6	136.8	120.5		10
12	231.8	230.9	222.3	185.3	208.6	168.6	203.5	195.6	202.8	195.8	205.2	129.8	194.9	134.7	117.1	109.4		12
14	196.7	197.6	189.1	164.6	185.5	149.3	181.3	173.1	182.4	175.3	176.7	118.5	170.1	123.5	101.7	100.6		14
16	142.4	172.0	162.5	148.1	164.2	133.5	160.7	154.8	159.6	154.8	153.9	109.0	153.0	114.1	88.4	91.5		16
18		151.1	142.5	137.5	148.2	120.9	141.9	139.9	140.6	136.8	135.9	101.1	135.9	106.1	79.8	84.2		18
20		134.5	120.3	128.9	132.1	113.3	129.2	126.5	125.4	123.1	121.6	93.3	121.6	98.9	72.7	78.3		20
22				119.0	115.3	106.8	115.9	114.6	113.1	111.2	109.3	87.1	109.3	92.5	66.3	72.6		22
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t		t
n	17	17	17	17	17	17	17	17	17	17	17	11	17	10	10	8		n
%	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122		%
m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s		m/s

m	18.4m~63.8m			155t				13m×13m				360°						m
	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8		
24				102.0	98.4	101.1	99.3	103.5	98.2	102.6	95.7	82.6	98.8	87.0	60.5	68.3		24
26				88.2	84.7	90.7	85.8	90.6	84.7	89.0	82.3	77.4	86.4	82.3	55.9	64.0		26
28						79.5	74.7	79.4	73.7	77.9	71.3	73.0	75.3	78.5	53.3	59.9		28
30						70.1	65.4	70.1	64.5	68.6	62.2	68.6	66.1	69.3	50.9	56.6		30
32								62.2	56.6	60.8	54.4	64.0	58.3	61.4	48.6	53.3		32
34								55.4	49.9	54.1	47.7	57.2	51.6	54.7	46.7	50.4		34
36								49.5	44.0	48.2	42.0	51.4	45.8	48.9	43.8	48.2		36
38										43.1	36.9	46.2	40.7	43.8	38.7	45.5		38
40										38.5	32.4	41.7	36.2	39.3	34.3	41.0		40
42												37.7	32.2	35.3	30.3	37.0		42
44												34.0	28.6	31.7	26.7	33.4		44
46												30.8	25.4	28.4	23.5	30.2		46
48														25.5	20.6	27.2		48
50														22.8	18.0	24.6		50
52																22.1		52
54																19.9		54
56																17.8		56
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t		t
n	17	17	17	17	17	17	17	17	17	17	17	11	17	10	10	8		n
%	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122		%
m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s		m/s

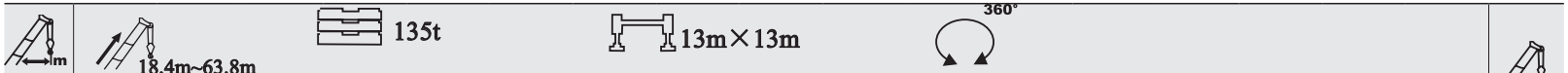
m	63.8m~92.4m			155t			13m×13m		360°								m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4								
3																	3
3.5																	3.5
4																	4
4.5																	4.5
5																	5
6																	6
7																	7
8																	8
9	139.9																9
10	131.1	105.0	123.7														10
12	116.2	95.3	110.4	89.4	110.3	85.4	91.9										12
14	103.2	86.5	99.1	81.5	97.9	79.4	84.0	76.3	58.3								14
16	93.3	79.4	89.0	75.4	86.7	73.5	76.4	70.0	56.5								16
18	84.0	73.3	79.7	68.6	77.2	68.4	70.4	64.4	54.0								18
20	75.3	68.0	71.5	63.5	68.9	63.3	63.5	59.3	50.6								20
22	67.5	63.5	64.4	58.4	61.9	58.6	57.1	54.2	47.9								22
t	240t	150t	150t	150t	150t	150t	150t	150t	150t								t
n	9	7	8	6	7	5	6	5	4								n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333								%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s								m/s

m	63.8m~92.4m			155t			13m×13m		360°								m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4								
24	61.4	59.2	58.1	54.2	56.9	53.8	52.1	49.3	44.1								24
26	55.6	54.7	52.8	51.0	52.1	49.6	47.7	45.2	41.0								26
28	51.1	51.2	48.0	47.7	48.0	45.2	43.9	41.9	38.1								28
30	46.7	48.9	43.6	44.3	44.9	40.6	40.5	38.5	35.6								30
32	43.2	45.7	40.5	41.2	40.8	37.0	37.2	35.5	33.6								32
34	40.4	43.4	37.7	39.0	38.5	35.9	34.9	33.1	31.7								34
36	37.6	41.2	35.2	36.8	35.0	34.7	32.7	30.9	29.7								36
38	35.1	38.9	33.3	34.5	32.6	33.4	30.9	29.3	27.8								38
40	33.7	36.7	30.5	32.8	29.8	31.9	28.9	28.0	26.2								40
42	29.8	35.5	28.5	31.1	27.5	29.0	27.0	26.1	24.7								42
44	26.2	33.4	26.6	29.4	25.6	28.3	26.0	24.6	23.7								44
46	23.0	30.9	23.5	28.0	24.1	26.0	23.7	23.1	22.0								46
48	20.1	28.0	20.6	26.6	21.8	24.3	22.0	22.2	20.7								48
50	17.5	25.3	17.9	25.0	19.1	22.1	20.7	20.7	19.5								50
52	15.1	22.9	15.5	22.7	16.7	20.6	18.3	19.7	18.3								52
54	12.9	20.6	13.3	20.4	14.5	19.5	16.1	18.0	17.1								54
t	240t	150t	150t	150t	150t	150t	150t	150t	150t								t
n	9	7	8	6	7	5	6	5	4								n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333								%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s								m/s

m	63.8m~92.4m			155t			13m×13m			360°								m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4									
56	10.8	18.6	11.3	18.4	12.5	17.5	14.1	15.9	16.2									56
58		16.7	9.4	16.5	10.6	15.6	12.2	14.1	14.3									58
60		14.9	7.6	14.7	8.8	13.8	10.4	12.3	12.6									60
62				13.1	7.2	12.2	8.8	10.7	10.9									62
64				11.5	5.7	10.7	7.3	9.2	9.4									64
66				10.1	4.3	9.3	5.9	7.8	8.0									66
68						7.9	4.6	6.4	6.7									68
70						6.7	3.3	5.2	5.5									70
72								4.0	4.3									72
74									3.2									74
76																		76
78																		78
80																		80
t	240t	150t	150t	150t	150t	150t	150t	150t	150t									t
n	9	7	8	6	7	5	6	5	4									n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333									%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s									m/s

4-1-4 On fully extended outriggers, with counterweight of 135t

m	18.4m~63.8m			135t				13m×13m			360°						m
	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8	
3	265.0																3
3.5	265.0	265.0	265.0														3.5
4	265.0	265.0	265.0	265.0	265.0	265.0											4
4.5	265.0	265.0	265.0	259.7	259.7	251.8	265.0	265.0									4.5
5	265.0	265.0	265.0	254.4	254.4	238.5	259.7	259.7	265.0								5
6	265.0	265.0	265.0	249.1	249.1	225.3	254.4	254.4	259.7	265.0	265.0						6
7	265.0	265.0	265.0	243.8	243.8	220.0	249.1	249.1	254.4	259.7	265.0	170.4	265.0				7
8	265.0	265.0	265.0	238.5	238.5	207.7	243.8	243.8	249.1	254.4	265.0	161.2	259.7	163.9	164.7		8
9	265.0	265.0	265.0	227.9	238.5	192.2	238.5	224.4	243.8	247.4	251.8	152.1	245.3	155.3	150.6	126.4	9
10	263.2	260.3	254.6	211.7	236.8	168.6	230.9	195.6	224.9	226.4	232.8	144.3	225.0	147.6	136.8	120.5	10
12	222.3	221.4	212.8	185.3	208.6	149.3	203.5	173.1	202.8	195.8	196.7	129.8	193.8	134.7	117.1	109.4	12
14	188.1	189.1	180.5	164.6	185.3	133.5	180.5	154.8	174.8	173.9	169.1	118.5	167.2	123.5	101.7	100.6	14
16	142.4	164.4	155.8	148.1	161.5	120.9	157.7	139.9	153.0	152.0	147.3	109.0	147.3	114.1	88.4	91.5	16
18		144.4	131.3	137.5	141.6	113.3	138.7	126.5	134.9	134.9	130.2	101.1	130.2	106.1	79.8	84.2	18
20		119.5	105.3	126.0	122.1	106.8	123.0	114.6	119.7	119.7	115.9	93.3	115.9	98.9	72.7	78.3	20
22				106.0	102.3	101.1	103.2	103.5	102.0	106.5	99.4	87.1	103.7	92.5	66.3	72.6	22
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t	t
n	17	17	17	17	17	17	17	17	17	17	17	11	17	10	10	8	n
%	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122	%
m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s	m/s



	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8		
24				90.4	86.8	92.7	87.7	92.6	86.6	91.0	84.1	82.6	88.3	87.0	60.5	68.3		24
26				77.8	74.2	80.2	75.3	80.1	74.3	78.6	71.8	77.4	75.9	79.2	55.9	64.0		26
28						70.0	65.2	69.9	64.2	68.4	61.8	71.7	65.8	69.0	53.3	59.9		28
30						61.4	56.6	61.4	55.7	59.9	53.4	63.2	57.4	60.6	50.9	56.6		30
32								54.2	48.6	52.8	46.4	56.0	50.3	53.4	48.2	55.2		32
34								48.0	42.4	46.6	40.3	49.8	44.2	47.2	42.1	49.0		34
36								42.6	37.1	41.2	35.0	44.4	38.8	41.9	36.8	43.7		36
38										36.5	30.3	39.7	34.2	37.2	32.2	39.0		38
40										32.4	26.2	35.6	30.1	33.1	28.1	34.9		40
42												31.9	26.4	29.4	24.5	31.2		42
44												28.5	23.1	26.2	21.2	27.9		44
46												25.5	20.2	23.2	18.3	24.9		46
48														20.5	15.6	22.3		48
50														18.1	13.2	19.8		50
52																17.6		52
54																15.5		54
56																13.6		56
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t		t
n	17	17	17	17	17	17	17	17	17	17	17	11	17	10	10	8		n
%	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122		%
m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s		m/s

m	63.8m~92.4m			135t			13m×13m			360°								m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4									
3																		3
3.5																		3.5
4																		4
4.5																		4.5
5																		5
6																		6
7																		7
8																		8
9	139.9																	9
10	131.1	105.0	123.7															10
12	116.2	95.3	110.4	89.4	110.3	85.4	91.9											12
14	103.2	86.5	99.1	81.5	97.9	79.4	84.0	76.3	58.3									14
16	93.3	79.4	89.0	75.4	86.7	73.5	76.4	70.0	56.5									16
18	84.0	73.3	79.7	68.6	77.2	68.4	70.4	64.4	54.0									18
20	75.3	68.0	71.5	63.5	68.9	63.3	63.5	59.3	50.6									20
22	67.5	63.5	64.4	58.4	61.9	58.6	57.1	54.2	47.9									22
t	240t	150t	150t	150t	150t	150t	150t	150t	150t									t
n	9	7	8	6	7	5	6	5	4									n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333									%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s									m/s

m	63.8m~92.4m					135t		13m×13m		360°								m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4									
24	61.4	59.2	58.1	54.2	56.9	53.8	52.1	49.3	44.1									24
26	55.6	54.7	52.8	51.0	52.1	49.6	47.7	45.2	41.0									26
28	51.1	51.2	48.0	47.7	48.0	45.2	43.9	41.9	38.1									28
30	46.7	48.9	43.6	44.3	44.9	40.6	40.5	38.5	35.6									30
32	43.2	45.7	40.5	41.2	40.8	37.0	37.2	35.5	33.6									32
34	40.4	43.4	37.7	39.0	38.5	35.9	34.9	33.1	31.7									34
36	36.3	41.2	35.2	36.8	35.0	34.7	32.7	30.9	29.7									36
38	31.7	38.9	32.1	34.5	32.6	33.4	30.9	29.3	27.8									38
40	27.6	35.6	28.0	32.8	29.2	31.9	28.9	28.0	26.2									40
42	24.0	31.9	24.4	31.1	25.6	29.0	27.0	26.1	24.7									42
44	20.7	28.6	21.2	28.4	22.3	27.5	24.0	24.6	23.7									44
46	17.8	25.7	18.2	25.5	19.4	24.5	21.0	22.9	22.0									46
48	15.2	23.0	15.6	22.8	16.8	21.9	18.4	20.3	20.5									48
50	12.7	20.5	13.2	20.3	14.4	19.4	16.0	17.9	18.1									50
52	10.5	18.3	11.0	18.1	12.2	17.2	13.8	15.7	15.9									52
54	8.5	16.3	9.0	16.1	10.1	15.2	11.7	13.6	13.9									54
t	240t	150t	150t	150t	150t	150t	150t	150t	150t									t
n	9	7	8	6	7	5	6	5	4									n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333									%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s									m/s

m	63.8m~92.4m			135t			13m×13m			360°								m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4									
56	6.6	14.4	7.1	14.2	8.3	13.3	9.9	11.8	12.0									56
58		12.6	5.4	12.5	6.6	11.6	8.2	10.0	10.3									58
60		11.0	3.8	10.8	5.0	10.0	6.6	8.4	8.7									60
62				9.3	3.5	8.5	5.1	7.0	7.2									62
64				7.9		7.1	3.7	5.6	5.8									64
66				6.6		5.8		4.3	4.5									66
68						4.6		3.1	3.3									68
70						3.4												70
72																		72
74																		74
76																		76
78																		78
80																		80
t	240t	150t	150t	150t	150t	150t	150t	150t	150t									t
n	9	7	8	6	7	5	6	5	4									n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333									%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s									m/s

4-1-5 On fully extended outriggers, with counterweight of 115t

m	18.4m~63.8m	115t	13m×13m	360°	m

m	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8		m
3	265.0																	3
3.5	265.0	265.0	265.0															3.5
4	265.0	265.0	265.0	265.0	265.0	132.5												4
4.5	265.0	265.0	265.0	259.7	259.7	258.4	265.0	132.5										4.5
5	265.0	265.0	265.0	254.4	254.4	245.1	259.7	262.4	265.0									5
6	265.0	265.0	265.0	249.1	249.1	231.9	254.4	257.1	259.7	265.0	265.0							6
7	265.0	265.0	265.0	243.8	243.8	222.6	249.1	251.8	254.4	259.7	265.0	170.4	265.0					7
8	265.0	265.0	265.0	238.5	238.5	213.8	243.8	246.5	249.1	254.4	262.7	161.2	257.2	163.9	164.7			8
9	265.0	265.0	262.7	227.9	238.5	199.9	238.5	234.1	243.8	247.4	243.2	152.1	238.1	155.3	150.6	126.4		9
10	253.7	251.8	244.6	211.7	236.7	180.4	229.9	210.0	223.1	222.0	223.3	144.3	217.5	147.6	136.8	120.5		10
12	212.3	211.9	203.3	185.3	203.1	158.9	198.2	181.6	194.5	190.0	188.1	129.8	185.7	134.7	117.1	109.4		12
14	179.5	181.0	172.4	164.6	177.2	141.4	172.9	159.1	167.2	166.3	162.0	118.5	160.1	123.5	101.7	100.6		14
16	134.3	152.8	140.7	148.1	152.6	127.2	150.6	141.7	146.3	145.4	140.6	109.0	140.6	114.1	88.4	91.5		16
18		127.8	113.8	127.6	127.6	116.8	126.6	123.3	124.1	126.5	120.3	101.1	122.6	106.1	79.8	84.2		18
20		104.6	90.4	111.0	107.2	102.6	108.1	106.4	105.8	108.1	102.5	93.3	104.8	98.0	72.7	78.3		20
22				92.9	89.2	91.6	90.1	92.7	88.9	93.4	86.3	85.5	90.6	86.7	66.3	72.6		22
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t		t
n	17	17	17	17	17	17	17	17	17	17	17	11	16	10	10	8		n
%	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122		%
m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s		m/s

m	18.4m~63.8m			115t				13m×13m				360°						m
	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8		
24				78.7	75.1	81.1	76.1	81.0	75.0	79.4	72.5	76.9	76.6	77.7	60.5	68.3		24
26				67.3	63.8	69.8	64.9	69.7	63.8	68.1	61.4	69.2	65.5	68.7	54.4	62.1		26
28						60.5	55.7	60.4	54.7	58.9	52.3	62.2	56.3	59.5	49.0	55.9		28
30						52.7	47.9	52.7	47.0	51.2	44.7	54.5	48.7	51.8	44.4	50.8		30
32								46.1	40.5	44.7	38.3	47.9	42.2	45.3	40.2	47.2		32
34								40.5	35.0	39.1	32.8	42.3	36.7	39.8	34.6	41.6		34
36								35.6	30.1	34.3	28.0	37.4	31.9	34.9	29.9	36.7		36
38										30.0	23.8	33.2	27.7	30.7	25.7	32.5		38
40										26.2	20.1	29.4	23.9	27.0	22.0	28.7		40
42												26.0	20.6	23.6	18.7	25.4		42
44												23.0	17.6	20.7	15.7	22.4		44
46												20.3	14.9	18.0	13.1	19.7		46
48														15.5	10.7	17.3		48
50														13.3	8.5	15.1		50
52																13.0		52
54																11.2		54
56																9.4		56
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t		t
n	17	17	17	17	17	17	17	17	17	17	17	11	16	10	10	8		n
%	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122		%
m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s		m/s

m	63.8m~92.4m			115t			13m×13m			360°								m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4									
3																		3
3.5																		3.5
4																		4
4.5																		4.5
5																		5
6																		6
7																		7
8																		8
9	139.9																	9
10	131.1	105.0	123.7															10
12	116.2	95.3	110.4	89.4	110.3	85.4	91.9											12
14	103.2	86.5	99.1	81.5	97.9	79.4	84.0	76.3	58.3									14
16	93.3	79.4	89.0	75.4	86.7	73.5	76.4	70.0	56.5									16
18	84.0	73.3	79.7	68.6	77.2	68.4	70.4	64.4	54.0									18
20	75.3	68.0	71.5	63.5	68.9	63.3	63.5	59.3	50.6									20
22	67.5	63.5	64.4	58.4	61.9	58.6	57.1	54.2	47.9									22
t	240t	150t	150t	150t	150t	150t	150t	150t	150t									t
n	9	7	8	6	7	5	6	5	4									n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333									%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s									m/s



m	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4									m
24	61.4	59.2	58.1	54.2	56.9	53.8	52.1	49.3	44.1									24
26	53.9	54.7	52.7	51.0	52.1	49.6	47.7	45.2	41.0									26
28	47.6	51.2	46.2	47.7	46.9	45.2	43.9	41.9	38.1									28
30	42.0	47.3	40.7	44.3	41.9	40.6	40.5	38.5	35.6									30
32	37.4	42.8	36.2	40.4	37.0	37.0	36.1	35.5	33.6									32
34	33.5	39.1	32.4	36.8	33.4	34.8	32.4	32.5	31.7									34
36	29.3	35.8	29.0	33.5	29.5	32.0	29.2	29.3	28.8									36
38	25.1	32.8	25.5	30.5	26.4	29.4	26.4	26.6	25.9									38
40	21.4	29.5	21.9	27.9	23.1	27.0	23.7	24.2	23.5									40
42	18.2	26.1	18.6	25.6	19.8	24.1	21.3	21.8	21.3									42
44	15.2	23.1	15.6	22.9	16.8	22.0	18.5	19.7	19.4									44
46	12.6	20.4	13.0	20.2	14.2	19.3	15.8	17.7	17.4									46
48	10.2	18.0	10.6	17.8	11.8	16.9	13.4	15.3	15.6									48
50	8.0	15.8	8.4	15.6	9.6	14.7	11.2	13.1	13.4									50
52	5.3	13.8	5.5	13.6	7.6	12.7	9.2	11.1	11.4									52
54	4.3	11.9	4.5	11.7	5.1	10.8	7.4	9.3	9.5									54
t	240t	150t	150t	150t	150t	150t	150t	150t	150t									t
n	9	7	8	6	7	5	6	5	4									n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333									%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s									m/s

m	63.8m~92.4m	115t	13m×13m	360°													m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4								
56	3.3	10.2	3.5	10.0	4.1	9.1	4.9	7.6	7.8								56
58		8.6		8.4	3.3	7.5	4.1	5.0	5.1								58
60		7.1		7.0		5.0	3.3	4.2	4.3								60
62				4.7		4.2		3.5	3.6								62
64				4.0		3.5											64
66				3.3													66
68																	68
70																	70
72																	72
74																	74
76																	76
78																	78
80																	80
t	240t	150t	150t	150t	150t	150t	150t	150t	150t								t
n	9	7	8	6	7	5	6	5	4								n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333								%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s								m/s

4-1-6 On fully extended outriggers, with counterweight of 95t



m	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8		m
3	265.0																	3
3.5	265.0	265.0	265.0															3.5
4	265.0	265.0	265.0	265.0	265.0													4
4.5	265.0	265.0	265.0	259.7	259.7	265.0	265.0											4.5
5	265.0	265.0	265.0	254.4	254.4	251.8	259.7	265.0	265.0									5
6	265.0	265.0	265.0	249.1	249.1	238.5	254.4	259.7	259.7	265.0	265.0							6
7	265.0	265.0	265.0	243.8	243.8	225.3	249.1	254.4	254.4	259.7	265.0	170.4	265.0					7
8	265.0	265.0	265.0	238.5	238.5	220.0	243.8	249.1	249.1	254.4	260.3	161.2	254.6	163.9	164.7			8
9	265.0	265.0	260.3	227.9	238.5	207.7	238.5	243.8	243.8	247.4	234.7	152.1	230.9	155.3	150.6	126.4		9
10	244.2	243.2	234.7	211.7	236.6	192.2	229.0	224.4	221.4	217.6	213.8	144.3	210.0	147.6	136.8	120.5		10
12	202.4	202.4	193.8	185.3	197.6	168.6	192.9	190.0	186.2	184.3	179.6	129.8	177.7	134.7	117.1	109.4		12
14	170.9	172.9	164.4	164.6	169.1	149.3	165.3	163.4	159.6	158.7	154.9	118.5	153.0	123.5	101.7	100.6		14
16	126.2	141.2	125.5	148.0	143.7	133.5	143.5	143.5	139.7	138.7	134.0	109.0	134.0	114.1	88.4	91.5		16
18		111.2	96.4	117.7	113.7	120.2	114.6	120.0	113.2	118.1	110.4	101.1	115.0	106.1	79.8	84.2		18
20		89.7	75.4	96.1	92.3	98.5	93.1	98.3	91.9	96.5	89.2	93.3	93.6	97.2	72.7	78.3		20
22				79.8	76.1	82.2	77.0	82.0	75.8	80.3	73.3	83.8	77.5	81.0	66.3	72.6		22
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t		t
n	17	17	17	17	17	17	17	17	17	17	17	11	17	10	10	8		n
%	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122		%
m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s		m/s

m	18.4m~63.8m			95t				13m×13m				360°						m
	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8		
24				67.1	63.5	69.5	64.5	69.4	63.3	67.7	60.9	71.2	65.0	68.4	60.5	68.3		24
26				56.8	53.3	59.3	54.4	59.2	53.3	57.7	50.9	61.0	55.0	58.3	52.8	60.2		26
28						51.0	46.1	50.9	45.2	49.4	42.8	52.7	46.8	50.0	44.7	51.9		28
30						44.0	39.2	44.0	38.3	42.5	36.0	45.7	40.0	43.1	37.9	45.0		30
32								38.1	32.5	36.7	30.3	39.9	34.2	37.3	32.1	39.1		32
34								33.0	27.5	31.7	25.3	34.8	29.2	32.3	27.2	34.1		34
36								28.6	23.1	27.3	21.0	30.5	24.9	28.0	22.9	29.7		36
38										23.5	17.3	26.6	21.1	24.2	19.1	25.9		38
40										20.1	13.9	23.2	17.8	20.8	15.8	22.6		40
42												20.2	14.8	17.8	12.9	19.6		42
44												17.5	12.1	15.2	10.2	16.9		44
46												15.1	9.7	12.7	7.8	14.5		46
48														10.5	5.7	12.3		48
50														8.5	3.7	10.3		50
52																8.5		52
54																6.8		54
56																5.2		56
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t		t
n	17	17	17	17	17	17	17	17	17	17	17	11	17	10	10	8		n
%	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122		%
m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s		m/s

m	63.8m~92.4m			95t			13m×13m			360°								m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4									
3																		3
3.5																		3.5
4																		4
4.5																		4.5
5																		5
6																		6
7																		7
8																		8
9	139.9																	9
10	131.1	105.0	123.7															10
12	116.2	95.3	110.4	89.4	110.3	85.4	91.9											12
14	103.2	86.5	99.1	81.5	97.9	79.4	84.0	76.3	58.3									14
16	93.3	79.4	89.0	75.4	86.7	73.5	76.4	70.0	56.5									16
18	84.0	73.3	79.7	68.6	77.2	68.4	70.4	64.4	54.0									18
20	75.3	68.0	71.5	63.5	68.9	63.3	63.5	59.3	50.6									20
22	67.5	63.5	64.4	58.4	61.9	58.6	57.1	54.2	47.9									22
t	240t	150t	150t	150t	150t	150t	150t	150t	150t									t
n	9	7	8	6	7	5	6	5	4									n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333									%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s									m/s

m	63.8m~92.4m			95t			13m×13m		360°								m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4								
24	61.4	59.2	58.1	54.2	56.9	53.8	52.1	49.3	44.1								24
26	52.2	54.7	52.6	51.0	52.1	49.6	47.7	45.2	41.0								26
28	44.0	51.2	44.5	47.7	45.8	45.2	43.9	41.9	38.1								28
30	37.3	45.7	37.7	44.3	38.9	40.6	40.5	38.5	35.6								30
32	31.5	39.9	31.9	39.6	33.2	37.0	34.9	35.5	33.6								32
34	26.6	34.8	27.0	34.6	28.3	33.6	29.9	31.9	31.7								34
36	22.3	30.5	22.8	30.3	24.0	29.3	25.6	27.6	27.9								36
38	18.6	26.7	19.0	26.4	20.2	25.5	21.9	23.8	24.1								38
40	15.3	23.3	15.7	23.1	16.9	22.1	18.6	20.5	20.8								40
42	12.4	20.3	12.8	20.1	14.0	19.1	15.6	17.5	17.8								42
44	9.7	17.6	10.1	17.4	11.3	16.5	13.0	14.9	15.1								44
46	7.3	15.2	7.8	15.0	9.0	14.1	10.6	12.5	12.7								46
48	5.2	13.0	5.6	12.8	6.8	11.9	8.4	10.3	10.6								48
50	3.2	11.0	3.7	10.8	4.9	9.9	6.5	8.4	8.6								50
52	1.4	9.2	1.9	9.0	3.1	8.1	4.7	6.6	6.8								52
54		7.6	0.2	7.4	1.4	6.5	3.0	4.9	5.2								54
t	240t	150t	150t	150t	150t	150t	150t	150t	150t								t
n	9	7	8	6	7	5	6	5	4								n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333								%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s								m/s

m	63.8m~92.4m		95t		13m×13m		360°										m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4								
56		7.6		7.4		6.5	3.0	4.9	5.2								56
58		6.0		5.8		4.9		3.4	3.6								58
60		4.6		4.4		3.5											60
62		3.3		3.1													62
64																	64
66																	66
68																	68
70																	70
72																	72
74																	74
76																	76
78																	78
80																	80
t	240t	150t	150t	150t	150t	150t	150t	150t	150t								t
n	9	7	8	6	7	5	6	5	4								n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333								%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s								m/s

4-1-7 On fully extended outriggers, with counterweight of 75t

m	18.4m~63.8m			75t				13m×13m				360°						m
	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8		
3	265.0																	3
3.5	265.0	265.0	265.0															3.5
4	265.0	265.0	265.0	265.0	265.0													4
4.5	265.0	265.0	265.0	259.7	259.7	265.0	265.0											4.5
5	265.0	265.0	265.0	254.4	254.4	251.8	259.7	265.0	265.0									5
6	265.0	265.0	265.0	249.1	249.1	238.5	254.4	259.7	259.7	265.0	265.0							6
7	265.0	265.0	265.0	243.8	243.8	225.3	249.1	254.4	254.4	259.7	265.0	170.4	265.0					7
8	265.0	265.0	265.0	238.5	238.5	220.0	243.8	249.1	249.1	252.7	248.9	161.2	243.2	163.9	164.7			8
9	259.4	256.5	248.0	227.9	238.5	207.7	238.5	236.6	232.8	228.0	224.2	152.1	220.4	155.3	150.6	126.4		9
10	232.8	231.8	223.3	211.7	225.2	192.2	218.5	214.7	211.9	208.1	204.3	144.3	200.5	147.6	136.8	120.5		10
12	192.9	193.8	184.3	185.3	189.1	168.6	183.4	181.5	177.7	175.8	172.0	129.8	170.1	134.7	117.1	109.4		12
14	144.7	159.9	142.8	163.4	161.5	149.3	156.8	155.8	152.0	151.1	147.3	118.5	146.3	123.5	101.7	100.6		14
16	105.2	120.3	104.6	127.1	122.8	129.6	123.7	129.4	122.2	127.4	119.2	109.0	124.1	114.1	88.4	91.5		16
18		93.8	79.0	100.3	96.3	102.8	97.2	102.5	95.8	100.7	93.0	101.1	97.6	101.3	79.8	84.2		18
20		74.7	60.5	81.2	77.3	83.5	78.2	83.3	76.9	81.6	74.2	85.2	78.7	82.2	72.7	78.3		20
22				66.7	63.1	69.1	63.9	69.0	62.8	67.3	60.2	70.8	64.5	67.9	62.1	69.9		22
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t		t
n	17	17	17	17	17	17	17	17	17	17	17	11	17	10	10	8		n
%	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122		%
m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s		m/s

m	18.4m~63.8m			75t				13m×13m				360°						m
	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8		
24				55.5	51.9	57.9	52.9	57.7	51.7	56.1	49.2	59.5	53.4	56.7	51.1	58.7		24
26				46.4	42.9	48.9	43.9	48.8	42.9	47.2	40.5	50.5	44.6	47.8	42.4	49.7		26
28						41.5	36.6	41.4	35.6	39.9	33.3	43.2	37.3	40.5	35.2	42.4		28
30						35.3	30.5	35.3	29.6	33.8	27.3	37.0	31.3	34.4	29.1	36.2		30
32								30.1	24.5	28.6	22.2	31.8	26.1	29.3	24.1	31.1		32
34								25.6	20.0	24.2	17.9	27.4	21.7	24.8	19.7	26.6		34
36								21.6	16.2	20.3	14.1	23.5	17.9	21.0	15.9	22.8		36
38										16.9	10.7	20.1	14.6	17.6	12.6	19.4		38
40										13.9	7.8	17.1	11.6	14.7	9.7	16.4		40
42												14.4	9.0	12.0	7.1	13.8		42
44												12.0	6.6	9.6	4.7	11.4		44
46												9.8	4.5	7.5	2.6	9.3		46
48														5.6		7.3		48
50														3.8		5.5		50
52																3.9		52
54																2.4		54
56																1.1		56
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t		t
n	17	17	17	17	17	17	17	17	17	17	17	11	17	10	10	8		n
%	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122		%
m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s		m/s

m	63.8m~92.4m	75t	13m×13m	360°													m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4								
3																	3
3.5																	3.5
4																	4
4.5																	4.5
5																	5
6																	6
7																	7
8																	8
9	139.9																9
10	131.1	105.0	123.7														10
12	116.2	95.3	110.4	89.4	110.3	85.4	91.9										12
14	103.2	86.5	99.1	81.5	97.9	79.4	84.0	76.3	58.3								14
16	93.3	79.4	89.0	75.4	86.7	73.5	76.4	70.0	56.5								16
18	84.0	73.3	79.7	68.6	77.2	68.4	70.4	64.4	54.0								18
20	75.3	68.0	71.5	63.5	68.9	63.3	63.5	59.3	50.6								20
22	61.5	63.5	61.9	58.4	61.9	58.6	57.1	54.2	47.9								22
t	240t	150t	150t	150t	150t	150t	150t	150t	150t								t
n	9	7	8	6	7	5	6	5	4								n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333								%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s								m/s

m	63.8m~92.4m			75t			13m×13m		360°									m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4									
24	50.5	59.2	50.9	54.2	52.3	53.8	52.1	49.3	44.1									24
26	41.7	50.5	42.2	50.2	43.5	49.2	45.2	45.2	41.0									26
28	34.5	43.1	35.0	42.9	36.2	41.8	38.0	40.1	38.1									28
30	28.5	37.0	29.0	36.8	30.2	35.7	32.0	34.0	34.3									30
32	23.5	31.8	23.9	31.6	25.1	30.6	26.8	28.9	29.1									32
34	19.1	27.4	19.6	27.1	20.8	26.1	22.5	24.5	24.7									34
36	15.4	23.5	15.8	23.3	17.0	22.3	18.7	20.6	20.9									36
38	12.1	20.1	12.5	19.9	13.7	18.9	15.3	17.3	17.6									38
40	9.1	17.2	9.6	16.9	10.8	16.0	12.4	14.4	14.6									40
42	6.5	14.5	7.0	14.3	8.2	13.3	9.8	11.7	12.0									42
44	4.2	12.1	4.6	11.9	5.8	11.0	7.5	9.4	9.6									44
46		10.0		9.8	3.7	8.8	5.3	7.3	7.5									46
48		8.1		7.8		6.9	3.4	5.3	5.6									48
50		6.3		6.1		5.2		3.6	3.9									50
52		4.7		4.5		3.6												52
54		3.2		3.0														54
56																		56
58																		58
t	240t	150t	150t	150t	150t	150t	150t	150t	150t									t
n	9	7	8	6	7	5	6	5	4									n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333									%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s									m/s

4-1-8 On fully extended outriggers, with counterweight of 55t

m	18.4m~63.8m	55t	13m×13m	360°	m
	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8		
3	265.0																	3
3.5	265.0	265.0	265.0															3.5
4	265.0	265.0	265.0	265.0	265.0													4
4.5	265.0	265.0	265.0	259.7	259.7	265.0	265.0											4.5
5	265.0	265.0	265.0	254.4	254.4	251.8	259.7	265.0	265.0									5
6	265.0	265.0	265.0	249.1	249.1	238.5	254.4	259.7	259.7	265.0	265.0							6
7	265.0	265.0	265.0	243.8	243.8	225.3	249.1	254.4	254.4	259.7	265.0	170.4	258.4					7
8	265.0	265.0	264.1	238.5	238.5	220.0	243.8	249.1	246.1	241.3	236.6	161.2	231.8	163.9	164.7			8
9	247.0	244.2	235.6	227.9	237.5	207.7	229.9	225.2	222.3	217.6	213.8	152.1	210.0	155.3	150.6	126.4		9
10	221.4	220.4	211.9	211.7	214.7	192.2	208.1	205.2	201.4	198.6	193.8	144.3	191.0	147.6	136.8	120.5		10
12	174.2	184.3	171.5	181.5	179.6	168.6	174.8	172.9	169.1	167.2	163.4	129.8	161.5	134.7	117.1	109.4		12
14	118.6	133.8	116.7	141.0	136.4	143.8	137.3	143.5	135.7	141.3	132.4	118.5	137.7	123.5	101.7	100.6		14
16	84.3	99.4	83.7	106.1	101.9	108.7	102.8	108.5	101.3	106.5	98.3	109.0	103.2	107.2	88.4	91.5		16
18		76.4	61.6	82.9	78.9	85.3	79.7	85.1	78.4	83.2	75.6	87.0	80.2	83.9	77.6	84.2		18
20		59.8	45.6	66.2	62.4	68.6	63.3	68.4	62.0	66.7	59.3	70.3	63.7	67.3	61.3	69.3		20
22				53.7	50.0	56.0	50.9	55.9	49.7	54.2	47.1	57.7	51.4	54.8	49.1	56.8		22
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t		t
n	17	17	17	17	17	17	17	17	17	17	17	11	16	10	10	8		n
%	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122		%
m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s		m/s

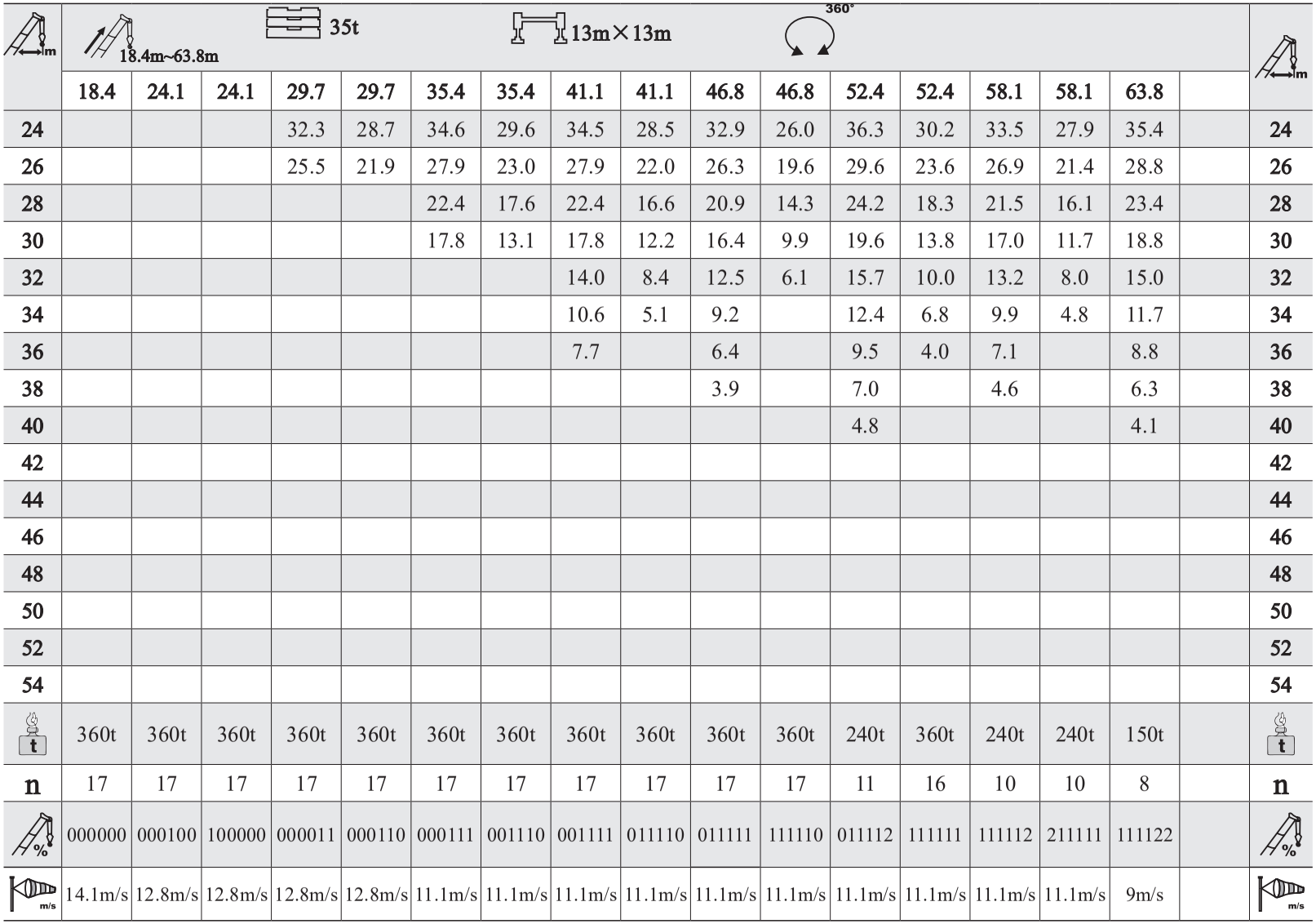
m	18.4m~63.8m			55t				13m×13m				360°						m
	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8		
24				43.9	40.3	46.3	41.2	46.1	40.1	44.5	37.6	47.9	41.8	45.1	39.5	47.1		24
26				35.9	32.4	38.4	33.5	38.3	32.4	36.7	30.0	40.1	34.1	37.4	31.9	39.2		26
28						32.0	27.1	31.9	26.1	30.4	23.8	33.7	27.8	31.0	25.6	32.9		28
30						26.5	21.8	26.6	20.9	25.1	18.6	28.3	22.5	25.7	20.4	27.5		30
32								22.0	16.4	20.6	14.2	23.8	18.1	21.2	16.0	23.0		32
34								18.1	12.6	16.7	10.4	19.9	14.3	17.4	12.2	19.2		34
36								14.7	9.2	13.4	7.1	16.5	11.0	14.0	8.9	15.8		36
38										10.4	4.2	13.6	8.0	11.1	6.1	12.9		38
40										7.8		10.9	5.5	8.5	3.5	10.3		40
42												8.6	3.2	6.2		8.0		42
44												6.5		4.1		5.9		44
46												4.6				4.0		46
48																		48
50																		50
52																		52
54																		54
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t		t
n	17	17	17	17	17	17	17	17	17	17	17	11	16	10	10	8		n
%	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122		%
m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s		m/s

m	63.8m~92.4m	55t	13m×13m	360°													m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4								
3																	3
3.5																	3.5
4																	4
4.5																	4.5
5																	5
6																	6
7																	7
8																	8
9	139.9																9
10	131.1	105.0	123.7														10
12	116.2	95.3	110.4	89.4	110.3	85.4	91.9										12
14	103.2	86.5	99.1	81.5	97.9	79.4	84.0	76.3	58.3								14
16	93.3	79.4	89.0	75.4	86.7	73.5	76.4	70.0	56.5								16
18	76.9	73.3	77.4	68.6	77.2	68.4	70.4	64.4	54.0								18
20	60.6	68.0	61.1	63.5	62.5	63.3	63.5	59.3	50.6								20
22	48.4	57.6	48.8	57.3	50.2	56.2	52.1	54.2	47.9								22
t	240t	150t	150t	150t	150t	150t	150t	150t	150t								t
n	9	7	8	6	7	5	6	5	4								n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333								%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s								m/s

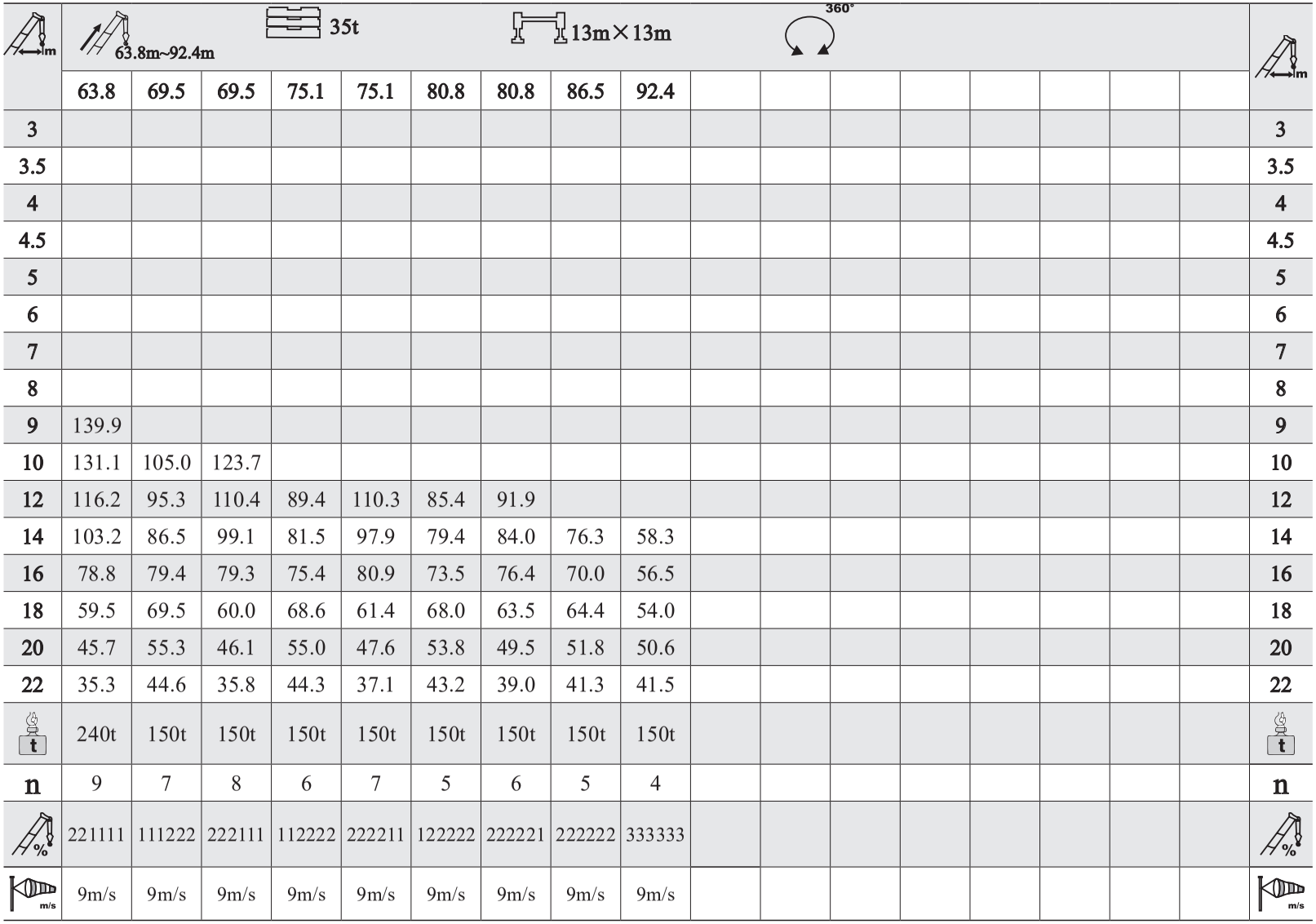
m	63.8m~92.4m			55t			13m×13m		360°								m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4								
24	38.9	47.9	39.3	47.6	40.6	46.5	42.5	44.7	44.1								24
26	31.3	40.0	31.7	39.8	33.0	38.7	34.8	36.9	37.2								26
28	25.0	33.6	25.5	33.4	26.7	32.3	28.5	30.6	30.8								28
30	19.8	28.3	20.3	28.0	21.5	27.0	23.2	25.3	25.6								30
32	15.4	23.8	15.9	23.5	17.1	22.5	18.8	20.8	21.1								32
34	11.7	19.9	12.1	19.7	13.3	18.7	15.0	17.0	17.3								34
36	8.4	16.5	8.8	16.3	10.0	15.3	11.7	13.7	13.9								36
38	5.5	13.6	5.9	13.4	7.1	12.4	8.8	10.8	11.0								38
40	3.0	11.0	3.4	10.8	4.6	9.8	6.3	8.2	8.5								40
42		8.7		8.5		7.5	4.0	5.9	6.2								42
44		6.6		6.4		5.5		3.9	4.1								44
46		4.8		4.5		3.6											46
48		3.1															48
50																	50
52																	52
54																	54
t	240t	150t	150t	150t	150t	150t	150t	150t	150t								t
n	9	7	8	6	7	5	6	5	4								n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333								%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s								m/s

4-1-9 On fully extended outriggers, with counterweight of 35t

m	18.4m~63.8m	35t	13m×13m	360°	m
	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8		
3	265.0																	3
3.5	265.0	265.0	265.0															3.5
4	265.0	265.0	265.0	265.0	265.0													4
4.5	265.0	265.0	265.0	259.7	259.7	265.0	265.0											4.5
5	265.0	265.0	265.0	254.4	254.4	251.8	259.7	265.0	265.0									5
6	265.0	265.0	265.0	249.1	249.1	238.5	254.4	259.7	259.7	265.0	265.0							6
7	265.0	265.0	265.0	243.8	243.8	225.3	249.1	254.4	254.4	256.5	252.7	170.4	246.1					7
8	263.2	260.3	250.8	238.5	238.5	220.0	243.2	237.5	234.7	229.0	225.2	161.2	220.4	163.9	164.7			8
9	233.7	232.8	224.2	227.9	225.2	207.7	218.5	214.7	210.9	207.1	203.3	152.1	199.5	155.3	150.6	126.4		9
10	210.0	210.0	201.4	206.2	204.3	192.2	198.6	194.8	191.9	188.1	184.3	144.3	181.5	147.6	136.8	120.5		10
12	139.3	156.0	136.6	164.2	158.9	167.3	159.9	164.4	158.1	158.7	154.3	129.8	153.0	134.7	117.1	109.4		12
14	92.4	107.6	90.5	114.9	110.2	117.6	111.1	117.3	109.5	115.1	106.2	118.5	111.6	115.9	101.7	100.6		14
16	63.4	78.5	62.8	85.2	81.0	87.8	81.8	87.5	80.4	85.6	77.4	89.6	82.3	86.2	79.6	88.5		16
18		58.9	44.1	65.4	61.4	67.9	62.3	67.7	61.0	65.8	58.1	69.6	62.8	66.5	60.2	68.6		18
20		44.8	30.6	51.3	47.5	53.7	48.3	53.5	47.1	51.7	44.4	55.3	48.8	52.3	46.4	54.4		20
22				40.6	36.9	43.0	37.8	42.8	36.6	41.1	34.0	44.6	38.3	41.7	36.0	43.7		22
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t		t
n	17	17	17	17	17	17	17	17	17	17	17	11	16	10	10	8		n
%	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122		%
m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s		m/s



m	18.4m~63.8m			35t				13m×13m				360°						m
	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8		
24				32.3	28.7	34.6	29.6	34.5	28.5	32.9	26.0	36.3	30.2	33.5	27.9	35.4		24
26				25.5	21.9	27.9	23.0	27.9	22.0	26.3	19.6	29.6	23.6	26.9	21.4	28.8		26
28						22.4	17.6	22.4	16.6	20.9	14.3	24.2	18.3	21.5	16.1	23.4		28
30						17.8	13.1	17.8	12.2	16.4	9.9	19.6	13.8	17.0	11.7	18.8		30
32								14.0	8.4	12.5	6.1	15.7	10.0	13.2	8.0	15.0		32
34								10.6	5.1	9.2		12.4	6.8	9.9	4.8	11.7		34
36								7.7		6.4		9.5	4.0	7.1		8.8		36
38										3.9		7.0		4.6		6.3		38
40												4.8				4.1		40
42																		42
44																		44
46																		46
48																		48
50																		50
52																		52
54																		54
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t		t
n	17	17	17	17	17	17	17	17	17	17	17	11	16	10	10	8		n
%	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122		%
m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s		m/s



m	63.8m~92.4m	35t	13m×13m	360°	m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4									
3																		3
3.5																		3.5
4																		4
4.5																		4.5
5																		5
6																		6
7																		7
8																		8
9	139.9																	9
10	131.1	105.0	123.7															10
12	116.2	95.3	110.4	89.4	110.3	85.4	91.9											12
14	103.2	86.5	99.1	81.5	97.9	79.4	84.0	76.3	58.3									14
16	78.8	79.4	79.3	75.4	80.9	73.5	76.4	70.0	56.5									16
18	59.5	69.5	60.0	68.6	61.4	68.0	63.5	64.4	54.0									18
20	45.7	55.3	46.1	55.0	47.6	53.8	49.5	51.8	50.6									20
22	35.3	44.6	35.8	44.3	37.1	43.2	39.0	41.3	41.5									22
t	240t	150t	150t	150t	150t	150t	150t	150t	150t									t
n	9	7	8	6	7	5	6	5	4									n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333									%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s									m/s

m	63.8m~92.4m			35t		13m×13m		360°									m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4								
24	27.3	36.2	27.7	36.0	29.0	34.9	30.9	33.0	33.3								24
26	20.8	29.6	21.2	29.3	22.5	28.2	24.3	26.5	26.7								26
28	15.5	24.1	16.0	23.9	17.2	22.8	19.0	21.1	21.3								28
30	11.1	19.6	11.5	19.3	12.8	18.3	14.5	16.6	16.8								30
32	7.4	15.7	7.8	15.5	9.1	14.5	10.8	12.8	13.0								32
34	4.2	12.4	4.6	12.2	5.8	11.2	7.5	9.5	9.8								34
36		9.6		9.3	3.1	8.4	4.7	6.7	7.0								36
38		7.1		6.8		5.9		4.2	4.5								38
40		4.9		4.6		3.7											40
42																	42
44																	44
46																	46
48																	48
50																	50
52																	52
54																	54
t	240t	150t	150t	150t	150t	150t	150t	150t	150t								t
n	9	7	8	6	7	5	6	5	4								n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333								%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s								m/s

4-1-10 On fully extended outriggers, with counterweight of 0t

m	18.4m~63.8m			0t				13m×13m				360°					m
	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8	
3	265.0																3
3.5	265.0	265.0	265.0														3.5
4	265.0	265.0	265.0	265.0	265.0												4
4.5	265.0	265.0	265.0	259.7	259.7	265.0	265.0										4.5
5	265.0	265.0	265.0	254.4	254.4	251.8	259.7	265.0	265.0								5
6	265.0	265.0	265.0	249.1	249.1	238.5	254.4	259.7	258.1	250.9	247.3						6
7	258.1	254.5	246.4	243.8	243.8	225.3	236.5	231.0	227.4	222.0	218.4	170.4	213.0				7
8	226.5	224.7	216.6	219.3	217.5	213.0	210.3	205.8	203.1	198.6	194.9	161.2	191.3	163.9	164.7		8
9	192.9	200.4	188.6	196.7	194.9	192.2	188.6	185.9	182.3	179.6	175.1	152.1	172.4	155.3	150.6	126.4	9
10	133.8	153.2	130.3	162.7	156.5	166.3	157.6	165.8	155.4	162.5	150.9	144.3	157.0	147.6	136.8	120.5	10
12	74.4	90.3	71.9	98.0	93.0	101.0	93.9	100.6	92.2	98.3	88.6	103.0	94.4	99.0	91.2	101.7	12
14	44.4	58.8	42.5	65.7	61.3	68.3	62.1	68.0	60.6	65.9	57.4	70.1	62.5	66.6	59.7	69.0	14
16	25.5	39.8	24.9	46.2	42.2	48.6	43.0	48.4	41.6	46.5	38.7	50.3	43.4	47.2	40.8	49.3	16
18		27.0	12.9	33.2	29.4	35.5	30.2	35.3	28.9	33.6	26.2	37.2	30.6	34.2	28.2	36.2	18
20		17.8	4.3	23.9	20.2	26.1	21.1	26.0	19.9	24.3	17.3	27.7	21.5	24.9	19.2	26.8	20
22				16.8	13.3	19.1	14.2	18.9	13.1	17.3	10.6	20.7	14.7	17.9	12.5	19.8	22
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t	t
n	17	17	17	17	17	17	17	17	17	16	16	11	13	10	10	8	n
%	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122	%
m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s	m/s

m	18.4m~63.8m			0t				13m×13m				360°						m
	18.4	24.1	24.1	29.7	29.7	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	63.8		
24				11.3	7.9	13.6	8.8	13.5	7.7	11.9	5.4	15.2	9.3	12.5	7.2	14.3		24
26				6.8	3.5	9.2	4.5	9.1	3.5	7.6		10.8	5.1	8.2	3.0	10.0		26
28						5.5		5.5		4.0		7.1		4.6		6.4		28
30												4.1				3.4		30
32																		32
34																		34
36																		36
38																		38
40																		40
42																		42
44																		44
46																		46
48																		48
50																		50
52																		52
54																		54
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	240t	360t	240t	240t	150t		t
n	17	17	17	17	17	17	17	17	17	16	16	11	13	10	10	8		n
%	000000	000100	100000	000011	000110	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	111122		%
m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	9m/s		m/s

m	63.8m~92.4m			0t			13m×13m			360°								m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4									
3																		3
3.5																		3.5
4																		4
4.5																		4.5
5																		5
6																		6
7																		7
8																		8
9	139.9																	9
10	131.1	105.0	123.7															10
12	90.2	95.3	90.8	89.4	92.7	85.4	91.9											12
14	58.9	69.9	59.4	69.6	61.0	68.2	63.3	66.0	58.3									14
16	40.1	50.2	40.6	49.9	42.1	48.7	44.1	46.6	46.9									16
18	27.5	37.1	28.0	36.8	29.4	35.6	31.3	33.6	33.9									18
20	18.6	27.7	19.0	27.4	20.3	26.3	22.2	24.4	24.7									20
22	11.8	20.6	12.2	20.3	13.5	19.3	15.3	17.5	17.7									22
t	240t	150t	150t	150t	150t	150t	150t	150t	150t									t
n	9	7	8	6	6	5	6	4	4									n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333									%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s									m/s

m	63.8m~92.4m			0t			13m×13m		360°								m
	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4								
24	6.6	15.1	7.0	14.8	8.3	13.8	10.0	12.1	12.3								24
26		10.7		10.5	4.0	9.5	5.7	7.8	8.0								26
28		7.1		6.9		5.9		4.2	4.5								28
30		4.1		3.9													30
32																	32
34																	34
36																	36
38																	38
40																	40
42																	42
44																	44
46																	46
48																	48
50																	50
52																	52
54																	54
t	240t	150t	150t	150t	150t	150t	150t	150t	150t								t
n	9	7	8	6	6	5	6	4	4								n
%	221111	111222	222111	112222	222211	122222	222221	222222	333333								%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s								m/s

LOG

5 Lifting Load Tables for Boom+Super Lifting Device

5-1 On fully extended outriggers

5-1-1 On fully extended outriggers, with counterweight of 195t

m	35.4m~58.1m		195t		13m×13m		360°		SL		m
	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	
5	265.0	265.0									5
6	265.0	265.0	265.0	265.0	265.0	265.0					6
7	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0			7
8	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	8
9	265.0	265.0	265.0	265.0	265.0	264.1	264.1	261.3	258.4	255.6	9
10	256.5	254.6	252.7	249.9	248.0	245.1	246.1	243.2	240.4	238.5	10
12	224.2	221.4	221.4	218.5	217.6	213.8	215.7	212.8	210.9	209.0	12
14	197.6	195.7	195.7	192.9	191.9	189.1	191.0	188.1	187.2	184.3	14
16	175.8	173.9	174.8	171.0	172.0	168.2	171.0	168.2	167.2	165.3	16
18	158.7	154.9	156.8	153.0	154.9	150.1	154.9	151.1	151.1	148.2	18
20	139.7	136.8	138.7	134.9	136.8	133.0	137.8	134.0	134.9	131.1	20
22	124.5	121.6	124.5	120.7	122.6	117.8	123.5	119.7	120.7	116.9	22
24	111.2	108.3	111.2	107.4	110.2	105.5	111.2	107.4	108.3	104.5	24
26	100.7	96.9	100.7	96.9	98.8	95.0	100.7	96.9	97.9	95.0	26
28	90.3	87.4	91.2	87.4	90.3	85.5	92.2	87.4	89.3	85.5	28
30	81.3	76.6	82.7	78.9	81.7	77.0	83.6	79.8	81.7	77.9	30
32			74.3	68.8	75.1	68.8	77.0	73.2	75.1	71.3	32
34			65.5	60.1	66.4	60.2	70.3	65.6	68.4	64.6	34
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	t
n	18	18	18	18	18	18	18	18	18	18	n
%	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	%
m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	m/s

m	35.4m~58.1m		195t		13m×13m		360°		St		m
	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	
36			57.7	52.3	58.9	52.7	63.6	58.1	62.3	57.3	36
38					52.2	46.1	57.0	51.5	55.8	50.8	38
40					46.2	40.1	51.1	45.7	50.0	45.0	40
42							45.8	40.5	44.8	39.9	42
44							41.1	35.8	40.1	35.3	44
46							36.8	31.5	35.9	31.1	46
48									32.1	27.2	48
50									28.5	23.7	50
52											52
54											54
56											56
58											58
60											60
62											62
64											64
66											66
68											68
70											70
72											72
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	t
n	18	18	18	18	18	18	18	18	18	18	n
%	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	%
m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	m/s

m	63.8m~92.4m		195t		13m×13m		360°		SL		m
	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4	
5											5
6											6
7											7
8	245.7	242.3									8
9	227.8	225.3	224.4	221.9							9
10	217.0	209.1	213.0	204.0	206.6	204.0	202.3	201.5			10
12	209.0	201.0	188.0	184.0	181.9	178.5	178.5	176.8	195.7	192.9	12
14	185.3	181.5	183.4	179.6	172.0	165.0	159.0	158.0	174.8	172.0	14
16	166.3	162.5	164.4	160.6	162.5	158.7	151.0	150.0	156.8	154.9	16
18	150.1	145.4	149.2	144.4	147.3	142.5	144.4	141.6	141.6	139.7	18
20	134.0	129.2	133.0	127.3	131.1	127.3	129.2	126.4	126.4	124.5	20
22	120.7	115.0	119.7	114.0	117.8	114.0	115.9	113.1	113.1	112.1	22
24	108.3	103.6	108.3	102.6	106.4	102.6	104.5	102.6	102.6	101.7	24
26	98.8	93.1	97.9	93.1	96.9	93.1	95.0	93.1	93.1	92.2	26
28	90.3	84.6	89.3	84.6	88.4	84.6	87.4	84.6	85.5	84.6	28
30	82.7	77.0	81.7	77.0	80.8	77.0	79.8	77.0	77.9	77.0	30
32	75.1	70.3	75.1	70.3	75.1	70.3	73.2	71.3	71.3	71.3	32
34	69.4	64.6	69.4	64.6	69.4	64.6	67.5	65.6	66.5	65.6	34
t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	t
n	16	16	15	14	13	13	13	13	13	12	n
%	111122	221111	111222	222111	112222	222211	122222	222221	222222	333333	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	63.8m~92.4m		195t		13m×13m		360°		SL		m
	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4	
36	63.7	57.7	64.6	58.9	63.7	59.9	62.7	59.9	60.8	60.8	36
38	58.5	51.2	59.9	52.4	58.9	54.2	58.0	56.1	56.1	56.1	38
40	52.7	45.5	54.2	46.7	54.6	48.5	54.2	50.7	52.3	52.3	40
42	47.5	40.4	49.0	41.6	49.5	43.4	49.0	45.5	47.9	48.5	42
44	42.9	35.8	44.4	37.0	44.8	38.8	44.4	41.0	43.3	43.9	44
46	38.7	31.6	40.2	32.9	40.7	34.7	40.3	36.8	39.2	39.8	46
48	34.9	27.9	36.4	29.1	36.9	31.0	36.5	33.1	35.4	34.1	48
50	31.4	24.4	33.0	25.7	33.5	27.6	33.1	29.7	32.0	29.2	50
52	28.2	21.2	29.8	22.6	30.3	24.5	30.0	26.6	28.9	26.5	52
54	25.2	18.3	26.9	19.7	27.4	21.6	27.1	23.7	26.1	23.9	54
56	22.5	15.6	24.2	17.0	24.8	18.9	24.5	21.1	23.4	21.6	56
58			21.7	14.6	22.3	16.5	22.0	18.7	21.0	19.4	58
60			19.4	12.2	20.0	14.2	19.7	16.4	18.7	17.4	60
62					17.9	12.1	17.6	14.3	16.6	15.5	62
64					15.8	10.1	15.6	12.3	14.7	13.7	64
66					13.9	8.2	13.8	10.5	11.1	10.9	66
68							12.0	8.7	9.5	9.5	68
70							10.4	7.1	8.1	8.2	70
72									6.4	7.0	72
t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	t
n	16	16	15	14	13	13	13	13	13	12	n
%	111122	221111	111222	222111	112222	222211	122222	222221	222222	333333	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

5-1-2 On fully extended outriggers, with counterweight of 175t

m	35.4m~58.1m		175t		13m×13m		360°		SL		m
	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	
5	265.0	265.0									5
6	265.0	265.0	265.0	265.0	265.0	265.0					6
7	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0			7
8	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	8
9	265.0	265.0	265.0	265.0	264.1	261.3	261.3	258.4	255.6	252.7	9
10	253.7	251.8	249.9	247.0	245.1	242.3	243.2	240.4	237.5	235.6	10
12	221.4	219.5	218.5	215.7	214.7	211.9	212.8	210.0	209.0	206.2	12
14	195.7	192.9	192.9	190.0	190.0	186.2	189.1	186.2	185.3	182.4	14
16	173.9	171.0	172.0	168.2	169.1	165.3	169.1	165.3	165.3	161.5	16
18	152.0	149.2	151.1	147.3	148.2	144.4	149.2	145.4	145.4	141.6	18
20	134.0	131.1	133.0	129.2	131.1	127.3	132.1	128.3	129.2	125.4	20
22	118.8	115.9	118.8	115.0	116.9	113.1	117.8	114.0	115.0	112.1	22
24	106.4	103.6	106.4	102.6	105.5	100.7	106.4	102.6	103.6	100.7	24
26	96.0	92.2	96.0	92.2	95.0	90.3	96.0	92.2	94.1	90.3	26
28	84.0	79.3	86.5	81.3	85.5	81.1	87.4	83.6	85.5	81.7	28
30	72.5	67.9	75.8	70.2	76.5	70.1	79.8	75.5	77.9	74.1	30
32			66.3	60.8	67.1	60.8	71.8	66.2	70.4	65.3	32
34			58.0	52.6	59.0	52.7	63.7	58.1	62.4	57.3	34
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	t
n	18	18	18	18	18	18	18	18	18	18	n
%	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	%
m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	m/s

m	35.4m~58.1m		175t		13m×13m		360°		SL		m
	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	
36			50.7	45.3	51.9	45.7	56.6	51.1	55.4	50.4	36
38					45.6	39.5	50.4	45.0	49.2	44.3	38
40					40.0	34.0	45.0	39.6	43.8	38.9	40
42							40.0	34.7	39.0	34.1	42
44							35.6	30.3	34.6	29.8	44
46							31.5	26.2	30.7	25.8	46
48									27.1	22.3	48
50									23.8	19.0	50
52											52
54											54
56											56
58											58
60											60
62											62
64											64
66											66
68											68
70											70
72											72
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	t
n	18	18	18	18	18	18	18	18	18	18	n
%	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	%
m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	m/s

m	63.8m~92.4m		175t		13m×13m		360°		SL		m
	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4	
5											5
6											6
7											7
8	245.7	242.3									8
9	227.8	225.3	224.4	221.9							9
10	217.0	209.1	213.0	204.0	206.6	204.0	202.3	201.5			10
12	206.2	201.0	188.0	184.0	181.9	178.5	178.5	176.8	193.8	191.0	12
14	183.4	179.6	181.5	177.7	172.0	165.0	159.0	158.0	172.0	170.1	14
16	164.4	159.6	162.5	157.7	159.6	155.8	151.0	150.0	153.9	151.1	16
18	144.4	139.7	143.5	137.8	141.6	136.8	138.7	135.9	135.9	134.0	18
20	128.3	123.5	127.3	122.6	125.4	121.6	123.5	121.6	120.7	119.7	20
22	115.0	110.2	115.0	109.3	113.1	109.3	111.2	108.3	108.3	107.4	22
24	103.6	98.8	103.6	97.9	102.6	97.9	100.7	97.9	97.9	96.9	24
26	94.1	89.3	94.1	88.4	93.1	88.4	91.2	89.3	89.3	88.4	26
28	85.5	80.8	85.5	80.8	84.6	80.8	83.6	80.8	81.7	80.8	28
30	78.9	73.2	78.9	73.2	77.9	73.2	76.0	74.1	74.1	74.1	30
32	72.2	65.6	72.2	66.5	71.3	67.5	70.3	67.5	68.4	67.5	32
34	65.1	57.7	66.5	58.8	65.6	60.7	64.6	61.8	62.7	62.7	34
t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	t
n	16	16	15	14	13	13	13	13	12	12	n
%	111122	221111	111222	222111	112222	222211	122222	222221	222222	333333	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	63.8m~92.4m		175t		13m×13m		360°		SL		m
	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4	
36	58.1	50.7	59.6	51.9	60.0	53.8	59.5	55.9	58.0	58.0	36
38	51.9	44.7	53.5	45.9	53.9	47.7	53.4	49.9	52.2	52.8	38
40	46.5	39.3	48.0	40.5	48.5	42.4	48.0	44.5	46.9	47.5	40
42	41.7	34.6	43.2	35.8	43.6	37.6	43.2	39.7	42.1	42.7	42
44	37.4	30.3	38.9	31.5	39.3	33.3	38.9	35.5	37.8	38.4	44
46	33.4	26.4	35.0	27.6	35.5	29.5	35.1	31.6	33.9	34.6	46
48	29.9	22.9	31.5	24.2	31.9	26.0	31.6	28.1	30.5	31.1	48
50	26.6	19.7	28.2	21.0	28.7	22.8	28.4	25.0	27.3	27.9	50
52	23.6	16.7	25.3	18.0	25.8	19.9	25.4	22.1	24.4	25.0	52
54	20.9	14.0	22.6	15.3	23.1	17.2	22.8	19.4	21.7	22.4	54
56	18.3	11.4	20.0	12.8	20.6	14.8	20.3	16.9	19.2	19.9	56
58			17.7	10.5	18.3	12.5	18.0	14.6	17.0	17.6	58
60			15.5	8.4	16.1	10.3	15.9	12.5	14.9	15.5	60
62					14.1	8.3	13.9	10.6	12.9	13.6	62
64					12.2	6.5	12.0	8.7	11.1	11.8	64
66					10.5		10.3	7.0	9.3	10.1	66
68							8.7	5.3	7.7	8.5	68
70							7.1		6.2	6.9	70
72										5.5	72
t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	t
n	16	16	15	14	13	13	13	13	12	12	n
%	111122	221111	111222	222111	112222	222211	122222	222221	222222	333333	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

5-1-3 On fully extended outriggers, with counterweight of 155t

m	35.4m~58.1m		155t		13m×13m		360°		SL		m
	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	
5	265.0	265.0									5
6	265.0	265.0	265.0	265.0	265.0	265.0					6
7	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0			7
8	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	8
9	265.0	265.0	265.0	263.2	261.3	257.5	258.4	255.6	252.7	249.9	9
10	250.8	248.9	247.0	244.2	242.3	239.4	240.4	237.5	235.6	232.8	10
12	218.5	216.6	215.7	212.8	211.9	209.0	210.9	208.1	206.2	203.3	12
14	192.9	191.0	191.0	187.2	187.2	183.4	187.2	183.4	182.4	179.6	14
16	167.2	163.4	165.3	161.5	162.5	157.7	162.5	158.7	158.7	154.9	16
18	145.4	142.5	144.4	140.6	142.5	137.8	142.5	138.7	139.7	135.9	18
20	128.3	125.4	127.3	123.5	125.4	121.6	126.4	122.6	123.5	119.7	20
22	114.0	110.2	114.0	109.3	112.1	107.4	113.1	109.3	110.2	106.4	22
24	101.7	97.3	101.7	97.9	100.7	96.0	101.7	97.9	98.8	96.0	24
26	87.0	82.2	89.9	84.1	90.3	83.7	92.2	88.4	89.3	86.5	26
28	74.5	69.8	77.5	71.8	78.0	71.5	82.8	77.0	81.3	76.0	28
30	63.8	59.2	67.1	61.5	67.8	61.4	72.5	66.8	71.0	65.8	30
32			58.3	52.8	59.0	52.7	63.7	58.1	62.4	57.2	32
34			50.6	45.1	51.5	45.3	56.2	50.7	54.9	49.8	34
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	t
n	18	18	18	18	18	18	18	18	18	18	n
%	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	%
m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	m/s

m	35.4m~58.1m		155t		13m×13m		360°		SL		m
	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	
36			43.8	38.4	44.9	38.7	49.7	44.2	48.4	43.4	36
38					39.1	33.0	43.9	38.5	42.7	37.7	38
40					33.9	27.8	38.8	33.4	37.7	32.7	40
42							34.2	28.9	33.2	28.3	42
44							30.1	24.8	29.1	24.3	44
46							26.3	21.0	25.4	20.6	46
48									22.1	17.3	48
50									19.0	14.2	50
52											52
54											54
56											56
58											58
60											60
62											62
64											64
66											66
68											68
70											70
72											72
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	t
n	18	18	18	18	18	18	18	18	18	18	n
%	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	%
m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	m/s

m	63.8m~92.4m		155t		13m×13m		360°		SL		m
	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4	
5											5
6											6
7											7
8	245.7	242.3									8
9	227.8	225.3	224.4	221.9							9
10	217.0	209.1	213.0	204.0	206.6	204.0	202.3	201.5			10
12	204.3	200.5	188.0	184.0	181.9	178.5	178.5	176.8	191.0	188.1	12
14	181.5	176.7	178.6	173.9	172.0	165.0	159.0	158.0	169.1	166.3	14
16	157.7	153.0	155.8	151.1	153.9	149.2	151.0	148.2	147.3	145.4	16
18	138.7	134.0	137.8	132.1	135.9	131.1	133.0	131.1	130.2	128.3	18
20	123.5	118.8	122.6	116.9	120.7	116.9	118.8	115.9	115.9	115.0	20
22	110.2	105.5	109.3	104.5	108.3	104.5	106.4	103.6	103.6	102.6	22
24	99.8	94.1	98.8	94.1	97.9	94.1	96.0	94.1	94.1	93.1	24
26	90.3	85.5	89.3	84.6	88.4	84.6	87.4	84.6	85.5	84.6	26
28	81.7	76.3	81.7	77.0	80.8	77.0	79.8	77.0	77.9	77.0	28
30	73.8	66.2	75.1	67.3	74.1	69.2	72.2	70.3	71.3	70.3	30
32	65.1	57.6	66.6	58.7	66.9	60.6	66.5	62.8	64.6	64.6	32
34	57.6	50.2	59.1	51.4	59.5	53.2	59.0	55.4	57.8	58.4	34
t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	t
n	16	16	15	14	13	13	13	13	12	12	n
%	111122	221111	111222	222111	112222	222211	122222	222221	222222	333333	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	63.8m~92.4m		155t		13m×13m		360°		SL		m
	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4	
36	51.1	43.8	52.6	45.0	53.0	46.8	52.5	49.0	51.3	52.0	36
38	45.4	38.2	46.9	39.3	47.3	41.2	46.9	43.3	45.7	46.3	38
40	40.4	33.2	41.9	34.4	42.3	36.2	41.9	38.4	40.7	41.3	40
42	35.9	28.7	37.4	30.0	37.8	31.8	37.4	33.9	36.3	36.9	42
44	31.9	24.8	33.4	26.0	33.8	27.8	33.4	30.0	32.3	32.9	44
46	28.2	21.2	29.8	22.4	30.2	24.3	29.8	26.4	28.7	29.4	46
48	24.9	17.9	26.5	19.2	27.0	21.0	26.6	23.2	25.5	26.1	48
50	21.9	14.9	23.5	16.2	24.0	18.1	23.6	20.2	22.5	23.2	50
52	19.1	12.2	20.7	13.5	21.2	15.4	20.9	17.5	19.8	20.5	52
54	16.5	9.6	18.2	11.0	18.7	12.9	18.4	15.0	17.3	18.0	54
56	14.1	7.2	15.9	8.7	16.4	10.6	16.1	12.7	15.1	15.7	56
58			13.7	6.5	14.3	8.5	14.0	10.6	12.9	13.6	58
60			11.6		12.3	6.5	12.0	8.7	11.0	11.7	60
62					10.4		10.2	6.8	9.2	9.9	62
64					8.6		8.4	5.1	7.5	8.2	64
66					7.0		6.8		5.9	6.6	66
68							5.3			5.1	68
70											70
72											72
t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	t
n	16	16	15	14	13	13	13	13	12	12	n
%	111122	221111	111222	222111	112222	222211	122222	222221	222222	333333	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

5-1-4 On fully extended outriggers, with counterweight of 135t

m	35.4m~58.1m		135t		13m×13m		360°		SL		m
	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	
5	265.0	265.0									5
6	265.0	265.0	265.0	265.0	265.0	265.0					6
7	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0			7
8	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	8
9	265.0	265.0	263.2	260.3	257.5	254.6	254.6	252.7	249.9	247.0	9
10	248.0	246.1	244.2	241.3	239.4	236.6	237.5	234.7	232.8	229.9	10
12	216.6	213.8	212.8	210.0	210.0	206.2	208.1	205.2	203.3	201.4	12
14	186.2	182.4	183.4	179.6	180.5	175.8	179.6	175.8	174.8	172.0	14
16	159.6	156.8	158.7	154.9	155.8	151.1	155.8	152.0	152.0	148.2	16
18	139.7	135.9	138.7	134.0	135.9	132.1	136.8	133.0	133.0	130.2	18
20	122.6	118.8	121.6	117.8	119.7	115.9	120.7	116.9	117.8	115.0	20
22	107.9	102.9	108.3	104.5	106.4	102.6	108.3	104.5	105.5	101.7	22
24	90.5	85.6	93.3	87.4	93.7	86.9	96.9	92.5	95.0	91.2	24
26	76.5	71.8	79.4	73.6	79.9	73.3	84.7	78.8	83.1	77.7	26
28	65.0	60.3	68.0	62.3	68.5	62.0	73.3	67.5	71.8	66.5	28
30	55.1	50.5	58.4	52.8	59.0	52.6	63.8	58.1	62.3	57.1	30
32			50.2	44.7	51.0	44.7	55.7	50.1	54.3	49.2	32
34			43.1	37.7	44.0	37.8	48.7	43.2	47.4	42.4	34
36			36.8	31.4	37.9	31.8	42.7	37.2	41.4	36.4	36
38					32.6	26.4	37.4	31.9	36.2	31.2	38
40					27.7	21.7	32.6	27.3	31.5	26.6	40
42							28.4	23.1	27.3	22.5	42
44							24.6	19.3	23.6	18.8	44
46							21.1	15.8	20.2	15.4	46
48									17.1	12.3	48
50									14.3	9.5	50
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	t
n	18	18	18	18	18	18	18	18	18	18	n
%	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	%
m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	m/s

m	63.8m~92.4m		135t		13m×13m		360°		SL		m
	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4	
5											5
6											6
7											7
8	245.7	242.3									8
9	227.8	225.3	224.4	221.9							9
10	217.0	209.1	213.0	204.0	206.6	204.0	202.3	201.5			10
12	201.4	197.6	188.0	184.0	181.9	178.5	178.5	176.8	188.1	185.3	12
14	173.9	169.1	172.0	166.3	169.1	165.0	159.0	158.0	162.5	159.6	14
16	151.1	146.3	149.2	144.4	147.3	143.5	144.4	142.5	141.6	139.7	16
18	133.0	128.3	132.1	126.4	130.2	125.4	127.3	125.4	124.5	122.6	18
20	117.8	113.1	116.9	112.1	115.0	111.2	113.1	111.2	111.2	109.3	20
22	105.5	100.7	104.5	99.8	103.6	99.8	101.7	98.8	99.8	97.9	22
24	95.0	90.3	94.1	89.3	93.1	89.3	91.2	89.3	89.3	88.4	24
26	85.5	78.0	85.5	79.2	84.6	80.8	82.7	80.8	80.8	80.8	26
28	74.5	66.8	76.1	68.0	76.4	69.9	75.9	72.1	74.1	73.2	28
30	65.1	57.5	66.6	58.6	66.9	60.5	66.4	62.7	65.1	65.8	30
32	57.0	49.5	58.5	50.7	58.9	52.5	58.4	54.7	57.1	57.8	32
34	50.1	42.7	51.6	43.9	52.0	45.7	51.5	47.9	50.3	50.9	34
t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	t
n	16	16	15	14	13	13	13	13	12	12	n
%	111122	221111	111222	222111	112222	222211	122222	222221	222222	333333	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	63.8m~92.4m		135t		13m×13m		360°		SL		m
	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4	
36	44.1	36.8	45.6	38.0	46.0	39.8	45.6	42.0	44.3	45.0	36
38	38.9	31.6	40.4	32.8	40.8	34.6	40.3	36.8	39.1	39.8	38
40	34.2	27.0	35.7	28.2	36.2	30.1	35.7	32.2	34.5	35.2	40
42	30.1	22.9	31.6	24.2	32.0	26.0	31.6	28.1	30.5	31.1	42
44	26.3	19.3	27.9	20.5	28.3	22.3	27.9	24.5	26.8	27.4	44
46	23.0	15.9	24.5	17.2	25.0	19.0	24.6	21.2	23.5	24.1	46
48	19.9	12.9	21.5	14.2	22.0	16.0	21.6	18.2	20.5	21.1	48
50	17.1	10.2	18.7	11.5	19.2	13.3	18.9	15.5	17.8	18.4	50
52	14.6	7.6	16.2	8.9	16.7	10.8	16.4	13.0	15.3	15.9	52
54	12.2	5.2	13.8	6.6	14.4	8.5	14.1	10.7	13.0	13.7	54
56	9.9		11.7		12.2	6.4	11.9	8.6	10.9	11.5	56
58			9.7		10.2		10.0	6.6	8.9	9.6	58
60			7.8		8.4		8.1		7.1	7.8	60
62					6.7		6.4		5.4	6.1	62
64					5.0						64
66											66
68											68
70											70
72											72
t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	t
n	16	16	15	14	13	13	13	13	12	12	n
%	111122	221111	111222	222111	112222	222211	122222	222221	222222	333333	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

5-1-5 On fully extended outriggers, with counterweight of 115t

m	35.4m~58.1m		115t		13m×13m		360°		SL		m
	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	
5	265.0	265.0									5
6	265.0	265.0	265.0	265.0	265.0	265.0					6
7	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0			7
8	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	264.1	8
9	264.1	261.3	265.0	257.5	254.6	251.8	251.8	249.9	247.0	244.2	9
10	245.1	243.2	241.3	238.5	236.6	233.7	234.7	231.8	229.9	227.1	10
12	210.0	207.1	207.1	203.3	202.4	198.6	201.4	197.6	196.7	192.9	12
14	177.7	174.8	175.8	172.0	172.0	168.2	172.0	168.2	168.2	164.4	14
16	153.0	149.2	151.1	147.3	148.2	144.4	149.2	145.4	145.4	141.6	16
18	133.0	129.2	132.1	128.3	130.2	125.4	130.2	126.4	127.3	123.5	18
20	115.2	109.9	115.9	111.5	114.0	110.2	115.9	112.1	113.1	109.3	20
22	94.8	89.8	97.5	91.5	97.9	90.9	102.6	96.6	100.7	95.5	22
24	78.9	74.0	81.7	75.8	82.1	75.3	86.9	80.9	85.3	79.8	24
26	66.1	61.3	69.0	63.2	69.4	62.8	74.2	68.3	72.7	67.3	26
28	55.5	50.7	58.5	52.8	59.0	52.5	63.8	58.0	62.3	57.0	28
30	46.4	41.8	49.7	44.1	50.3	43.9	55.0	49.3	53.6	48.4	30
32			42.2	36.7	42.9	36.6	47.6	42.0	46.3	41.1	32
34			35.6	30.2	36.6	30.3	41.3	35.7	39.9	34.9	34
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	t
n	18	18	18	18	18	18	18	18	18	18	n
%	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	%
m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	m/s

m	35.4m~58.1m		115t		13m×13m		360°		SL		m
	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	
36			29.8	24.4	31.0	24.8	35.7	30.2	34.5	29.4	36
38					26.0	19.9	30.8	25.4	29.6	24.7	38
40					21.6	15.5	26.5	21.1	25.4	20.4	40
42							22.6	17.2	21.5	16.7	42
44							19.1	13.8	18.1	13.2	44
46							15.8	10.5	15.0	10.2	46
48									12.1	7.3	48
50									9.5		50
52											52
54											54
56											56
58											58
60											60
62											62
64											64
66											66
68											68
70											70
72											72
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	t
n	18	18	18	18	18	18	18	18	18	18	n
%	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	%
m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	m/s

m	63.8m~92.4m		115t		13m×13m		360°		SL		m
	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4	
5											5
6											6
7											7
8	245.7	242.3									8
9	227.8	225.3	224.4	221.9							9
10	217.0	209.1	213.0	204.0	206.6	204.0	202.3	201.5			10
12	194.8	190.0	188.0	184.0	181.9	178.5	178.5	176.8	180.5	177.7	12
14	166.3	161.5	164.4	159.6	161.5	157.7	158.7	156.8	154.9	153.0	14
16	144.4	139.7	142.5	137.8	140.6	136.8	137.8	135.9	134.9	133.0	16
18	127.3	121.6	125.4	120.7	124.5	119.7	121.6	119.7	118.8	117.8	18
20	112.1	107.4	112.1	106.4	110.2	106.4	108.3	105.5	105.5	104.5	20
22	100.7	95.7	99.8	95.0	98.8	95.0	96.9	95.0	95.0	94.1	22
24	88.1	80.1	89.7	81.3	89.3	83.2	87.4	84.6	85.5	84.6	24
26	75.4	67.6	77.0	68.7	77.3	70.6	76.8	72.9	75.4	76.0	26
28	65.0	57.3	66.5	58.5	66.9	60.4	66.4	62.6	65.0	65.7	28
30	56.3	48.7	57.9	49.9	58.2	51.8	57.7	54.0	56.4	57.0	30
32	49.0	41.5	50.5	42.7	50.9	44.5	50.4	46.7	49.1	49.7	32
34	42.6	35.3	44.2	36.4	44.5	38.3	44.1	40.4	42.8	43.5	34
t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	t
n	16	16	15	14	13	13	13	13	12	11	n
%	111122	221111	111222	222111	112222	222211	122222	222221	222222	333333	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	63.8m~92.4m		115t		13m×13m		360°		SL		m
	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4	
36	37.2	29.8	38.7	31.0	39.1	32.9	38.6	35.0	37.4	38.0	36
38	32.3	25.1	33.8	26.3	34.2	28.1	33.8	30.3	32.6	33.2	38
40	28.1	20.9	29.6	22.1	30.0	23.9	29.6	26.0	28.4	29.0	40
42	24.3	17.1	25.8	18.3	26.2	20.2	25.8	22.3	24.6	25.3	42
44	20.8	13.8	22.4	15.0	22.8	16.8	22.4	19.0	21.3	21.9	44
46	17.8	10.7	19.3	12.0	19.8	13.8	19.4	15.9	18.3	18.9	46
48	14.9	7.9	16.5	9.2	17.0	11.1	16.6	13.2	15.5	16.2	48
50	12.4	5.4	14.0	6.7	14.5	8.6	14.1	10.7	13.0	13.7	50
52	10.0		11.6		12.1	6.3	11.8	8.4	10.7	11.4	52
54	7.8		9.5		10.0		9.7	6.3	8.6	9.3	54
56	5.8		7.5		8.0		7.7		6.7	7.4	56
58			5.6		6.2		5.9			5.6	58
60											60
62											62
64											64
66											66
68											68
70											70
72											72
t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	t
n	16	16	15	14	13	13	13	13	12	11	n
%	111122	221111	111222	222111	112222	222211	122222	222221	222222	333333	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

5-1-6 On fully extended outriggers, with counterweight of 95t

m	35.4m~58.1m		95t		13m×13m		360°		SL		m
	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	
5	265.0	265.0									5
6	265.0	265.0	265.0	265.0	265.0	265.0					6
7	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0			7
8	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0	263.2	260.3	8
9	260.3	258.4	256.5	253.7	251.8	248.9	248.9	246.1	244.2	241.3	9
10	242.3	239.4	238.5	234.7	233.7	229.0	230.9	227.1	225.2	222.3	10
12	200.5	197.6	197.6	193.8	193.8	190.0	192.9	189.1	188.1	184.3	12
14	169.1	166.3	167.2	163.4	164.4	160.6	164.4	160.6	160.6	156.8	14
16	145.4	142.5	144.4	140.6	141.6	137.8	142.5	138.7	138.7	134.9	16
18	124.7	119.3	125.4	120.8	123.5	118.8	124.5	120.7	121.6	117.8	18
20	100.2	95.0	102.9	96.6	103.2	96.0	108.3	101.8	106.5	100.6	20
22	81.8	76.7	84.5	78.4	84.8	77.8	89.8	83.5	88.1	82.4	22
24	67.3	62.4	70.1	64.2	70.5	63.7	75.3	69.3	73.7	68.2	24
26	55.6	50.8	58.5	52.7	59.0	52.3	63.8	57.9	62.2	56.8	26
28	45.9	41.2	49.0	43.3	49.5	43.0	54.3	48.5	52.8	47.5	28
30	37.7	33.1	41.0	35.4	41.6	35.2	46.3	40.6	44.9	39.7	30
32			34.1	28.6	34.9	28.6	39.6	34.0	38.2	33.1	32
34			28.2	22.7	29.1	22.8	33.8	28.2	32.5	27.4	34
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	t
n	18	18	18	18	18	18	18	18	18	17	n
%	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	%
m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	m/s

m	35.4m~58.1m		95t		13m×13m		360°		SL		m
	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	
36			22.8	17.4	24.0	17.8	28.7	23.3	27.5	22.5	36
38					19.5	13.4	24.3	18.9	23.1	18.1	38
40					15.4	9.4	20.3	15.0	19.2	14.3	40
42							16.8	11.4	15.7	10.8	42
44							13.6	8.2	12.6	7.7	44
46							10.6	5.3	9.8		46
48									7.2		48
50											50
52											52
54											54
56											56
58											58
60											60
62											62
64											64
66											66
68											68
70											70
72											72
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	t
n	18	18	18	18	18	18	18	18	18	17	n
%	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	%
m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	m/s

m	63.8m~92.4m		95t		13m×13m		360°		SL		m
	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4	
5											5
6	245.7	242.3									6
7	227.8	225.3	224.4	221.9							7
8	217.0	209.1	213.0	204.0	206.6	204.0	202.3	201.5			8
9	186.2	181.5	183.4	178.6	180.5	176.7	176.7	174.8	172.9	170.1	9
10	158.7	153.9	156.8	152.0	154.9	151.1	152.0	149.2	148.2	146.3	10
12	137.8	133.0	136.8	131.1	134.9	130.2	132.1	129.2	129.2	127.3	12
14	120.7	115.9	119.7	115.0	117.8	114.0	115.9	114.0	113.1	112.1	14
16	107.4	100.8	106.4	101.7	105.5	100.7	102.6	100.7	100.7	99.8	16
18	90.9	82.6	92.5	83.8	92.8	85.8	92.2	88.2	90.3	89.3	18
20	76.5	68.5	78.1	69.6	78.4	71.6	77.8	73.9	76.4	77.1	20
22	65.0	57.1	66.5	58.3	66.9	60.2	66.3	62.4	64.9	65.6	22
24	55.5	47.8	57.0	49.0	57.4	50.8	56.9	53.1	55.5	56.2	24
26	47.6	40.0	49.1	41.2	49.5	43.1	49.0	45.3	47.7	48.3	26
28	40.9	33.4	42.4	34.6	42.8	36.5	42.3	38.6	41.1	41.7	28
30	35.2	27.8	36.7	29.0	37.1	30.8	36.6	33.0	35.4	36.0	30
32											32
34											34
t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	t
n	16	16	15	14	13	13	13	13	11	11	n
%	111122	221111	111222	222111	112222	222211	122222	222221	222222	333333	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	63.8m~92.4m		95t		13m×13m		360°		SL		m
	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4	
36	30.2	22.9	31.7	24.0	32.1	25.9	31.6	28.0	30.4	31.0	36
38	25.8	18.5	27.3	19.7	27.7	21.6	27.3	23.7	26.1	26.7	38
40	21.9	14.7	23.4	15.9	23.8	17.8	23.4	19.9	22.2	22.9	40
42	18.5	11.3	20.0	12.5	20.4	14.4	20.0	16.5	18.8	19.5	42
44	15.3	8.3	16.9	9.5	17.3	11.3	16.9	13.5	15.8	16.4	44
46	12.5	5.5	14.1	6.7	14.5	8.6	14.2	10.7	13.0	13.7	46
48	10.0		11.5		12.0	6.1	11.6	8.2	10.5	11.2	48
50	7.6		9.2		9.7		9.4	5.9	8.3	8.9	50
52	5.5		7.1		7.6		7.3		6.2	6.8	52
54			5.1		5.7		5.3				54
56											56
58											58
60											60
62											62
64											64
66											66
68											68
70											70
72											72
t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	t
n	16	16	15	14	13	13	13	13	11	11	n
%	111122	221111	111222	222111	112222	222211	122222	222221	222222	333333	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

5-1-7 On fully extended outriggers, with counterweight of 75t

m	35.4m~58.1m		75t		13m×13m		360°		SL		m
	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	
5	265.0	265.0									5
6	265.0	265.0	265.0	265.0	265.0	265.0					6
7	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0			7
8	265.0	265.0	265.0	265.0	265.0	265.0	265.0	263.2	259.4	257.5	8
9	257.5	254.6	252.7	248.9	247.0	243.2	244.2	240.4	237.5	234.7	9
10	231.8	229.0	228.0	224.2	223.3	218.5	221.4	217.6	215.7	211.9	10
12	191.0	188.1	189.1	185.3	185.3	180.5	184.3	180.5	179.6	175.8	12
14	161.5	157.7	159.6	155.8	156.8	152.0	156.8	153.0	153.0	149.2	14
16	138.0	132.2	136.8	133.0	134.9	130.2	134.9	131.1	132.1	128.3	16
18	107.3	101.8	110.0	103.4	110.2	102.6	115.5	108.7	113.6	107.4	18
20	85.3	80.1	88.0	81.7	88.3	81.0	93.3	86.9	91.5	85.7	20
22	68.7	63.6	71.4	65.3	71.7	64.8	76.7	70.5	75.0	69.3	22
24	55.7	50.8	58.4	52.5	58.9	52.1	63.7	57.7	62.1	56.6	24
26	45.2	40.4	48.0	42.3	48.5	41.9	53.3	47.4	51.7	46.4	26
28	36.4	31.7	39.5	33.8	40.0	33.5	44.8	39.0	43.3	38.0	28
30	29.0	24.3	32.3	26.7	32.9	26.5	37.6	31.9	36.2	31.0	30
32			26.1	20.6	26.8	20.5	31.5	25.9	30.2	25.1	32
34			20.7	15.2	21.6	15.4	26.3	20.8	25.0	19.9	34
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	t
n	18	18	18	18	18	18	18	18	17	17	n
%	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	%
m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	m/s

m	35.4m~58.1m		75t		13m×13m		360°		SL		m
	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	
36			15.9	10.5	17.0	10.9	21.8	16.3	20.5	15.5	36
38					13.0	6.8	17.8	12.3	16.6	11.6	38
40					9.3		14.2	8.8	13.1	8.1	40
42							11.0	5.6	9.9	5.0	42
44							8.1		7.1		44
46							5.4				46
48											48
50											50
52											52
54											54
56											56
58											58
60											60
62											62
64											64
66											66
68											68
70											70
72											72
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	t
n	18	18	18	18	18	18	18	18	17	17	n
%	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	%
m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	m/s

m	63.8m~92.4m		75t		13m×13m		360°		SL		m
	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4	
5											5
6											6
7											7
8	245.7	242.3									8
9	227.8	225.3	224.4	221.9							9
10	212.8	208.1	209.0	204.0	205.2	201.4	200.5	198.6			10
12	177.7	172.9	174.8	170.1	172.0	168.2	169.1	166.3	165.3	162.5	12
14	152.0	146.3	150.1	144.4	147.3	143.5	144.4	142.5	141.6	139.7	14
16	131.1	126.4	130.2	125.4	128.3	124.5	125.4	123.5	122.6	121.6	16
18	115.0	107.6	114.0	108.9	112.1	108.3	110.2	108.3	108.3	106.4	18
20	94.5	85.9	96.1	87.1	96.4	89.1	95.8	91.5	94.2	94.9	20
22	77.9	69.6	79.4	70.8	79.8	72.7	79.2	75.1	77.7	78.3	22
24	64.9	56.8	66.5	58.0	66.8	60.0	66.2	62.3	64.8	65.4	24
26	54.5	46.6	56.1	47.8	56.4	49.7	55.9	52.0	54.5	55.1	26
28	46.0	38.3	47.5	39.5	47.9	41.3	47.4	43.6	46.0	46.7	28
30	38.9	31.3	40.4	32.5	40.8	34.3	40.3	36.5	39.0	39.6	30
32	32.9	25.4	34.4	26.6	34.8	28.4	34.3	30.6	33.0	33.6	32
34	27.7	20.3	29.2	21.5	29.6	23.3	29.1	25.5	27.9	28.5	34
t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	t
n	16	16	15	14	13	13	13	13	11	10	n
%	111122	221111	111222	222111	112222	222211	122222	222221	222222	333333	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	63.8m~92.4m		75t		13m×13m		360°		SL		m
	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4	
36	23.2	15.9	24.7	17.1	25.1	18.9	24.7	21.1	23.4	24.1	36
38	19.3	12.0	20.8	13.2	21.2	15.0	20.7	17.2	19.5	20.2	38
40	15.8	8.6	17.3	9.8	17.7	11.6	17.3	13.7	16.1	16.7	40
42	12.6	5.5	14.2	6.7	14.6	8.6	14.2	10.7	13.0	13.7	42
44	9.8		11.4	4.0	11.8	5.8	11.4	7.9	10.3	10.9	44
46	7.3		8.9		9.3		8.9	5.5	7.8	8.4	46
48	5.0		6.6		7.0		6.7		5.6	6.2	48
50					5.0						50
52											52
54											54
56											56
58											58
60											60
62											62
64											64
66											66
68											68
70											70
72											72
t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	t
n	16	16	15	14	13	13	13	13	11	10	n
%	111122	221111	111222	222111	112222	222211	122222	222221	222222	333333	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

5-1-8 On fully extended outriggers, with counterweight of 55t

m	35.4m~58.1m		55t		13m×13m		360°		SL		m
	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	
5	265.0	265.0	265.0								5
6	265.0	265.0	265.0	265.0	265.0	265.0					6
7	260.8	265.0	265.0	265.0	265.0	265.0	265.0	265.0			7
8	238.4	265.0	265.0	265.0	265.0	265.0	265.0	263.2	259.4	256.5	8
9	212.8	248.9	248.0	244.2	242.3	237.5	239.4	235.6	232.8	229.9	9
10	191.2	223.3	223.3	219.5	218.5	213.8	216.6	212.8	210.9	207.1	10
12	157.6	183.4	184.3	180.5	180.5	176.7	180.5	176.7	175.8	172.0	12
14	157.7	151.3	155.8	152.0	153.0	148.2	153.0	149.2	149.2	145.4	14
16	117.0	111.1	119.8	112.7	120.0	111.8	125.6	118.3	123.5	116.9	16
18	89.7	84.1	92.4	85.7	92.7	85.0	98.0	91.2	96.1	89.9	18
20	70.2	64.8	72.8	66.4	73.1	65.8	78.3	71.8	76.5	70.5	20
22	55.4	50.2	58.1	51.9	58.4	51.3	63.5	57.1	61.7	56.0	22
24	43.8	38.7	46.5	40.5	47.0	40.1	51.9	45.8	50.3	44.7	24
26	34.4	29.5	37.2	31.4	37.7	31.0	42.6	36.6	41.0	35.6	26
28	26.5	21.7	29.6	23.8	30.2	23.6	35.0	29.1	33.5	28.1	28
30	19.8	15.1	23.1	17.5	23.8	17.3	28.6	22.8	27.2	21.9	30
32			17.6	12.0	18.4	12.0	23.2	17.5	21.8	16.6	32
34			12.8	7.2	13.7	7.4	18.5	12.9	17.2	12.0	34
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	t
n	18	18	18	18	18	18	18	18	17	17	n
%	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	%
m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	m/s

m	35.4m~58.1m		55t		13m×13m		360°		SL		m
	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	
36			8.4		9.6		14.4	8.9	13.2	8.1	36
38					6.0		10.8	5.3	9.6		38
40							7.6		6.5		40
42											42
44											44
46											46
48											48
50											50
52											52
54											54
56											56
58											58
60											60
62											62
64											64
66											66
68											68
70											70
72											72
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	t
n	18	18	18	18	18	18	18	18	17	17	n
%	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	%
m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	m/s

m	63.8m~92.4m		55t		13m×13m		360°		SL		m
	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4	
5											5
6											6
7											7
8	245.7	242.3									8
9	227.8	225.2	224.4	220.4							9
10	208.1	203.3	204.3	199.5	200.5	196.7	196.7	194.8			10
12	173.9	169.1	171.0	166.3	168.2	164.4	165.3	162.5	161.5	158.7	12
14	148.2	143.5	146.3	141.6	144.4	139.7	141.6	138.7	137.8	135.9	14
16	126.8	117.1	127.3	118.4	125.4	120.6	122.6	120.7	119.7	118.8	16
18	99.2	90.1	100.9	91.3	101.2	93.4	100.5	96.0	98.8	99.5	18
20	79.5	70.8	81.1	72.0	81.4	74.0	80.7	76.5	79.2	79.9	20
22	64.7	56.2	66.2	57.4	66.6	59.4	65.9	61.8	64.5	65.1	22
24	53.1	44.9	54.7	46.1	55.0	48.0	54.4	50.4	53.0	53.6	24
26	43.8	35.9	45.4	37.0	45.7	38.9	45.2	41.2	43.8	44.4	26
28	36.3	28.4	37.8	29.6	38.1	31.5	37.6	33.7	36.2	36.9	28
30	29.9	22.2	31.4	23.4	31.8	25.3	31.3	27.5	30.0	30.6	30
32	24.5	16.9	26.0	18.1	26.4	20.0	25.9	22.2	24.6	25.3	32
34	19.9	12.4	21.4	13.6	21.8	15.4	21.3	17.6	20.1	20.7	34
t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	t
n	16	16	15	14	13	13	13	13	10	10	n
%	111122	221111	111222	222111	112222	222211	122222	222221	222222	333333	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	63.8m~92.4m		55t		13m×13m		360°		SL		m
	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4	
36	15.9	8.5	17.4	9.7	17.8	11.5	17.3	13.7	16.1	16.7	36
38	12.4	5.0	13.9	6.2	14.3	8.0	13.8	10.2	12.6	13.3	38
40	9.2		10.8		11.2	5.0	10.7	7.2	9.5	10.2	40
42	6.4		8.0		8.4		8.0		6.8	7.5	42
44			5.5		5.9		5.5			5.0	44
46											46
48											48
50											50
52											52
54											54
56											56
58											58
60											60
62											62
64											64
66											66
68											68
70											70
72											72
t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	t
n	16	16	15	14	13	13	13	13	10	10	n
%	111122	221111	111222	222111	112222	222211	122222	222221	222222	333333	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

5-1-9 On fully extended outriggers, with counterweight of 35t

m	35.4m~58.1m		35t		13m×13m		360°		SL		m
	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	
5	265.0	265.0									5
6	265.0	265.0	265.0	265.0	265.0	265.0					6
7	265.0	265.0	265.0	265.0	265.0	265.0	265.0	265.0			7
8	263.2	259.4	257.5	253.7	250.8	247.0	248.0	244.2	241.3	237.5	8
9	233.7	230.9	229.9	226.1	224.2	220.4	222.3	218.5	215.7	212.8	9
10	210.0	207.1	206.2	202.4	202.4	197.6	200.5	196.7	194.8	191.9	10
12	172.9	169.1	170.1	166.3	167.2	162.5	166.3	162.5	162.5	158.7	12
14	131.5	125.2	134.4	126.7	134.5	125.7	140.5	132.7	137.8	131.0	14
16	96.1	90.3	98.9	91.9	99.1	91.0	104.6	97.4	102.5	96.0	16
18	72.4	67.0	75.1	68.5	75.4	67.8	80.6	73.9	78.7	72.5	18
20	55.4	50.2	58.1	51.8	58.4	51.1	63.5	57.0	61.7	55.8	20
22	42.5	37.5	45.2	39.2	45.6	38.6	50.5	44.3	48.8	43.2	22
24	32.4	27.5	35.2	29.3	35.6	28.8	40.5	34.4	38.9	33.3	24
26	24.3	19.5	27.1	21.3	27.6	21.0	32.4	26.5	30.8	25.4	26
28	17.4	12.7	20.4	14.8	21.0	14.5	25.7	20.0	24.3	19.0	28
30	11.5	6.9	14.8	9.2	15.5	9.1	20.2	14.5	18.8	13.6	30
32			10.0		10.8		15.5	9.8	14.1	9.0	32
34			5.7		6.7		11.4	5.8	10.1	5.0	34
36							7.8		6.6		36
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	t
n	18	18	18	18	18	18	18	18	16	16	n
%	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	%
m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	m/s

m	63.8m~92.4m		35t		13m×13m		360°		SL		m
	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4	
5											5
6											6
7											7
8	237.5	232.8									8
9	212.8	208.1	209.0	204.3							9
10	192.9	188.1	190.0	185.3	186.2	182.4	182.4	179.6			10
12	160.6	155.8	158.7	153.9	155.8	152.0	153.0	151.1	149.2	147.3	12
14	136.8	131.2	135.9	130.2	133.0	129.2	130.2	128.3	127.3	125.4	14
16	105.8	96.2	107.5	97.5	107.8	99.7	107.0	102.3	105.3	106.0	16
18	81.8	72.8	83.4	74.0	83.8	76.1	83.1	78.6	81.4	82.1	18
20	64.6	56.0	66.2	57.2	66.6	59.2	65.9	61.7	64.4	65.0	20
22	51.7	43.4	53.3	44.6	53.6	46.6	53.0	48.9	51.5	52.2	22
24	41.7	33.6	43.2	34.8	43.6	36.7	43.0	39.0	41.6	42.2	24
26	33.6	25.7	35.1	26.9	35.5	28.8	34.9	31.1	33.6	34.2	26
28	27.0	19.3	28.5	20.4	28.9	22.3	28.3	24.6	27.0	27.7	28
30	21.5	13.9	23.0	15.1	23.4	16.9	22.8	19.1	21.6	22.2	30
32	16.8	9.3	18.3	10.5	18.7	12.3	18.2	14.5	16.9	17.5	32
34	12.8	5.4	14.3	6.5	14.7	8.4	14.2	10.6	12.9	13.6	34
36	9.3		10.8		11.2	5.0	10.7	7.1	9.5	10.1	36
38	6.2		7.7		8.1		7.7		6.5	7.1	38
40			5.0		5.4		5.0				40
42											42
t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	t
n	16	15	14	13	12	12	12	11	9	9	n
%	111122	221111	111222	222111	112222	222211	122222	222221	222222	333333	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

5-1-10 On fully extended outriggers, with counterweight of 0t

m	35.4m~58.1m		0t		13m×13m		360°		SL		m
	35.4	35.4	41.1	41.1	46.8	46.8	52.4	52.4	58.1	58.1	
5	260.0	260.0									5
6	260.0	260.0	260.0	260.0	260.0	260.0					6
7	260.0	260.0	265.0	263.2	259.4	255.6	255.6	252.7			7
8	239.4	236.6	234.7	230.9	229.0	225.2	226.1	223.3	220.4	216.6	8
9	212.8	210.0	209.0	205.2	204.3	200.5	202.4	198.6	196.7	193.8	9
10	191.0	187.2	188.1	184.3	183.4	179.6	182.4	178.6	177.7	173.9	10
12	129.3	122.1	132.4	123.7	132.4	122.4	139.2	130.3	136.5	128.3	12
14	85.8	79.4	88.6	81.0	88.8	80.0	94.8	86.9	92.4	85.3	14
16	59.5	53.7	62.3	55.3	62.5	54.4	68.0	60.8	65.9	59.4	16
18	41.9	36.5	44.6	38.0	44.9	37.3	50.1	43.4	48.2	42.0	18
20	29.3	24.0	31.9	25.6	32.2	25.0	37.3	30.9	35.5	29.6	20
22	19.7	14.6	22.4	16.3	22.7	15.7	27.7	21.4	26.0	20.3	22
24	12.1	7.2	14.9	9.0	15.3	8.5	20.1	14.1	18.5	13.0	24
26	6.0		8.8		9.3		14.1	8.2	12.5	7.1	26
28							9.1		7.6		28
30							4.9				30
32											32
34											34
36											36
t	360t	360t	360t	360t	360t	360t	360t	360t	360t	360t	t
n	18	18	18	18	18	18	18	18	16	16	n
%	000111	001110	001111	011110	011111	111110	011112	111111	111112	211111	%
m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	m/s

m	63.8m~92.4m		0t		13m×13m		360°		SL		m
	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	86.5	92.4	
5											5
6											6
7											7
8	216.6	211.9									8
9	194.8	190.0	191.0	186.2							9
10	175.8	171.0	172.9	168.2	170.1	165.3	166.3	163.4			10
12	140.4	128.5	142.5	130.0	141.6	132.6	138.7	135.9	135.9	134.0	12
14	95.9	85.4	97.8	86.8	98.1	89.2	97.2	92.1	95.3	96.0	14
16	69.2	59.6	70.9	60.9	71.2	63.1	70.4	65.7	68.7	69.4	16
18	51.3	42.3	52.9	43.5	53.3	45.6	52.6	48.1	50.9	51.6	18
20	38.5	29.9	40.1	31.1	40.4	33.1	39.8	35.5	38.2	38.9	20
22	28.8	20.5	30.4	21.7	30.8	23.7	30.1	26.1	28.7	29.3	22
24	21.3	13.3	22.9	14.5	23.2	16.4	22.6	18.7	21.2	21.9	24
26	15.3	7.4	16.8	8.6	17.2	10.5	16.6	12.8	15.3	15.9	26
28	10.4		11.9		12.2	5.7	11.7	7.9	10.4	11.0	28
30	6.2		7.7		8.1		7.6		6.3	6.9	30
32											32
34											34
36											36
38											38
40											40
42											42
t	360t	360t	360t	360t	360t	360t	360t	360t	240t	240t	t
n	16	15	14	13	12	12	12	11	9	9	n
%	111122	221111	111222	222111	112222	222211	122222	222221	222222	333333	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

LOG

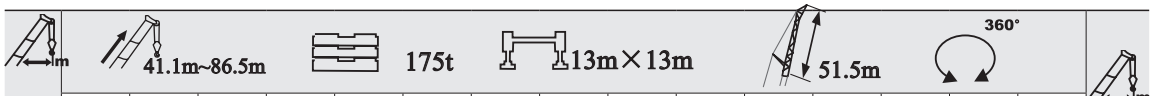
6 Lifting Load Tables for Boom+Super Lifting Device+Wind Power Jib

6-1 On fully extended outriggers

6-1-1 On fully extended outriggers, with wind power jib of 51.5m

m	41.1m~86.5m				195t			13m×13m			51.5m	360°				m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
9	138.2	138.2														9
10	138.2	138.2	138.2	138.2												10
12	138.1	138.2	138.2	138.2	129.0	136.0	135.6									12
14	134.4	135.1	138.2	138.2	128.0	136.0	135.6	136.0	134.6							14
16	130.4	130.4	134.6	134.6	126.0	135.2	133.5	134.3	132.6	132.6	130.9					16
18	115.5	117.0	120.8	120.8	121.6	122.4	120.7	120.7	119.0	119.9	118.2	125.0	125.0	125.0	120.0	18
20	115.1	116.3	119.2	120.0	120.0	121.9	120.0	116.2	116.2	108.0	107.2	107.1	105.4	107.0	106.9	20
22	114.0	112.5	112.5	111.0	110.2	110.8	107.9	109.4	106.5	103.3	98.6	98.0	98.0	98.0	98.0	22
24	102.7	100.5	101.1	99.6	98.1	98.5	96.6	98.1	95.3	94.2	88.7	95.0	95.0	95.0	95.0	24
26	92.8	90.8	91.3	89.8	88.3	88.7	86.8	88.3	85.5	84.7	79.5	80.0	82.1	82.3	82.5	26
28	84.5	82.5	83.0	81.5	80.0	79.6	77.7	80.0	77.3	76.7	71.8	72.8	74.1	74.3	74.5	28
30	77.0	75.8	75.5	74.0	73.2	74.6	70.9	72.5	69.8	69.4	65.5	65.8	66.8	67.0	67.2	30
32	70.9	69.0	69.4	67.9	66.4	67.9	64.2	66.4	63.0	63.5	59.1	59.5	61.0	61.2	61.3	32
34	64.9	63.8	63.4	61.9	61.1	62.7	58.9	60.4	57.8	57.7	54.2	54.6	55.2	55.7	56.2	34
36	60.4	58.5	58.9	57.4	55.9	57.6	53.6	55.1	52.5	51.8	49.3	49.7	50.9	51.0	51.1	36
38	51.8	50.4	50.4	49.0	47.6	49.3	45.5	46.9	44.8	43.9	42.6	45.5	46.5	46.6	46.7	38
40	47.6	46.9	46.2	44.8	44.1	46.0	42.0	43.4	41.3	40.6	38.6	42.0	42.1	42.2	42.3	40
42	44.1	43.4	42.7	41.3	40.6	42.2	38.5	39.9	37.8	37.2	35.9	38.5	39.0	39.2	39.4	42
44	41.3	39.9	39.9	38.5	37.1	38.4	35.0	37.1	34.4	34.3	32.3	32.9	33.4	33.9	34.5	44
t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	t
n	9	9	9	9	10	10	10	10	10	10	10	9	9	9	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	41.1m~86.5m			195t		13m×13m			51.5m		360°				m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
46	39.5	37.1	37.1	35.7	34.3	34.5	31.5	33.7	30.7	30.0	27.7	29.4	29.7	30.2	30.7	46
48	35.7	34.3	34.3	32.4	30.9	30.8	28.1	30.3	27.3	26.9	24.6	26.3	26.4	26.9	27.3	48
50	32.9	31.6	31.5	29.4	27.8	27.4	25.0	27.2	24.2	24.1	21.8	23.4	23.7	24.0	24.2	50
52	28.2	26.7	26.6	24.6	23.2	22.6	20.6	22.7	19.9	19.5	19.2	20.8	20.9	21.2	21.4	52
54	25.7	24.3	24.2	22.2	20.8	20.0	18.2	20.3	17.5	17.4	16.9	16.8	16.6	14.0	13.8	54
56	23.5	22.1	22.0	20.0	18.6	17.6	16.0	18.1	15.3	15.2	14.7	16.3	16.5	13.5	13.1	56
58	21.4	20.0	19.9	17.9	16.5	15.3	14.0	16.0	13.3	13.1	12.7	12.7	12.6	12.5	12.3	58
60	19.5	18.1	18.0	16.0	14.6	13.3	12.1	14.2	11.4	11.3	10.9	11.8	11.7	11.5	11.5	60
62	17.7	16.3	16.2	14.3	12.9	11.3	10.3	12.4	9.6	9.7	9.2	9.2	9.2	8.7	8.5	62
64	16.0	14.6	14.6	12.6	11.2			10.8				9.0				64
66	14.4	13.1	13.0	11.1	9.7			9.2								66
68	13.0	11.6	11.5	9.6												68
70	11.6	10.3	10.2													70
72	10.3	9.0														72
t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	t
n	9	9	9	9	10	10	10	10	10	10	10	9	9	9	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s



	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
9	136.9	136.9														9
10	136.9	136.9	136.9	136.9												10
12	136.8	136.9	136.9	136.9	128.0	136.0	135.6									12
14	133.0	133.7	136.9	136.9	127.0	136.0	135.6	136.0	134.6							14
16	129.1	129.1	133.3	133.3	125.0	135.2	133.5	134.3	132.6	132.6	130.9					16
18	114.3	115.8	119.6	119.6	119.0	122.4	120.7	120.7	119.0	119.9	118.2	124.3	123.3	116.7	110.0	18
20	111.6	110.1	109.4	107.9	109.7	110.5	108.8	109.7	107.1	108.0	106.3	107.1	105.4	107.0	106.0	20
22	110.2	108.8	108.7	107.2	105.7	106.2	104.2	104.9	102.0	101.4	95.5	97.7	97.6	97.6	98.0	22
24	98.9	97.5	98.1	95.9	95.1	95.5	92.8	94.3	91.5	90.5	85.2	92.1	92.1	92.1	93.8	24
26	89.8	87.8	88.3	86.8	85.3	85.6	83.0	85.3	81.8	81.8	76.7	79.7	79.7	79.7	79.7	26
28	81.5	79.5	80.0	78.5	77.0	76.6	74.7	77.0	74.3	73.7	69.0	70.0	71.2	71.4	71.5	28
30	74.7	72.8	73.2	71.7	70.2	71.5	67.9	69.4	66.8	66.4	62.6	63.0	64.7	64.8	65.0	30
32	67.9	66.8	66.4	64.9	64.2	65.5	61.9	63.4	60.8	60.6	57.0	57.4	58.1	58.6	59.1	32
34	62.6	60.8	61.1	59.6	58.1	59.6	56.6	58.1	55.5	55.5	51.4	52.5	53.0	53.2	53.3	34
36	57.4	56.3	56.6	54.3	53.6	55.2	51.3	52.8	50.3	49.7	47.2	47.6	48.7	48.8	48.9	36
38	49.7	48.3	48.3	46.9	45.5	47.2	44.1	44.8	43.5	42.6	40.9	44.1	44.6	44.7	44.9	38
40	45.5	44.8	44.8	43.9	42.3	44.1	39.4	41.7	38.6	38.7	36.3	39.6	39.5	39.7	39.8	40
42	43.5	41.9	41.7	39.5	37.9	39.4	35.1	37.3	34.2	34.6	32.1	35.3	35.4	35.3	35.3	42
44	39.5	37.9	37.7	35.5	34.0	35.1	31.1	33.4	30.3	30.6	28.4	29.1	29.4	29.9	30.4	44
t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	t
n	9	9	9	9	10	10	10	10	10	10	10	9	9	9	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s



41.1m~86.5m

175t

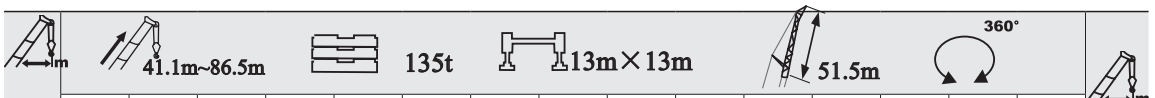
13m×13m

51.5m

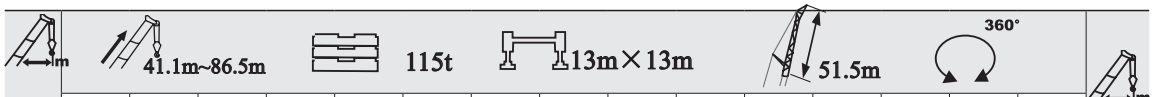
360°


	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
46	35.9	34.3	34.2	32.0	30.4	30.6	27.6	29.9	26.8	26.5	24.2	25.8	25.9	26.4	26.8	46
48	32.7	31.1	30.9	28.8	27.2	27.1	24.4	26.7	23.6	23.6	21.2	22.9	22.8	23.2	23.6	48
50	29.7	28.1	28.0	25.8	24.3	24.0	21.5	23.7	20.7	20.9	18.6	20.2	20.2	20.4	20.6	50
52	25.1	23.6	23.5	21.5	20.1	19.6	17.5	19.6	16.8	16.8	16.2	17.7	17.6	17.8	18.0	52
54	22.8	21.3	21.2	19.2	17.8	17.1	15.2	17.3	14.5	14.7	14.0	15.5	15.4	13.8	13.6	54
56	20.6	19.2	19.1	17.1	15.7	14.9	13.1	15.2	12.4	12.7	11.9	13.4	13.3	13.3	12.9	56
58	18.7	17.3	17.1	15.2	13.8	12.8	11.2	13.3	10.5	10.7	10.0	11.4	11.3	11.2	11.2	58
60	16.8	15.4	15.3	13.4	11.9	10.8	9.4	11.4		9.0		9.6	9.4	9.4	9.4	60
62	15.1	13.7	13.6	11.7	10.2	9.0		9.8								62
64	13.5	12.1	12.0	10.1												64
66	12.0	10.6	10.5													66
68	10.6	9.2	9.1													68
70	9.2															70
72																72
t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	t
n	9	9	9	9	10	10	10	10	10	10	10	9	9	9	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

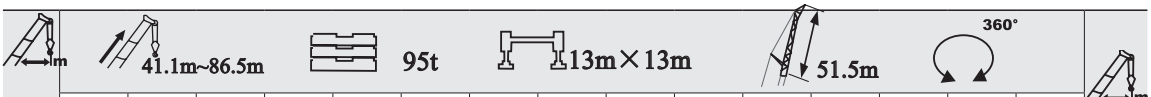
m	41.1m~86.5m				155t			13m×13m			51.5m		360°			m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
9	135.5	135.5														9
10	135.5	135.5	135.5	135.5												10
12	135.4	135.7	135.7	135.7	128.0	136.0	135.6									12
14	131.7	132.4	135.9	135.9	127.0	136.0	136.0	136.0	134.6							14
16	127.8	127.8	131.9	131.9	125.0	135.2	133.5	134.3	132.6	132.6	130.9					16
18	113.2	114.7	118.4	118.4	119.0	122.4	120.7	120.7	119.0	119.9	118.2	123.5	121.6	115.8	110.0	18
20	110.5	109.0	108.3	106.8	109.7	110.5	108.8	109.7	107.1	108.0	106.3	107.1	105.4	106.4	105.0	20
22	106.4	105.0	104.9	103.4	101.9	102.4	99.6	100.4	97.5	96.9	90.8	93.4	92.1	94.1	96.2	22
24	95.9	93.8	94.3	92.8	91.3	91.7	89.1	90.6	87.8	86.1	81.7	87.0	86.7	87.9	89.1	24
26	86.8	84.8	85.3	83.0	82.3	82.6	80.0	81.5	78.8	78.1	73.2	73.0	74.8	75.0	75.2	26
28	78.5	76.5	77.0	75.5	74.0	73.6	72.5	74.0	71.3	70.8	66.2	66.5	68.3	68.1	67.9	28
30	71.7	69.8	70.2	68.7	67.2	68.4	64.9	67.2	64.5	64.2	59.8	60.2	61.7	61.9	62.1	30
32	65.7	63.8	64.2	62.6	61.1	62.5	60.4	61.1	58.5	58.4	54.9	55.3	55.9	56.1	56.2	32
34	61.1	60.8	60.4	58.9	57.4	58.9	54.7	56.6	53.3	53.3	49.7	50.4	50.9	51.0	51.1	34
36	57.6	55.5	55.6	53.2	51.4	53.0	48.3	50.7	47.1	47.5	43.7	44.9	45.0	45.2	45.3	36
38	48.1	46.5	46.3	44.0	42.4	43.9	39.5	41.8	38.7	38.8	36.4	39.7	39.6	39.7	39.9	38
40	43.4	41.8	41.6	39.4	37.7	39.4	34.9	37.2	34.1	34.4	32.0	35.1	34.8	34.9	35.1	40
42	39.2	37.6	37.4	35.2	33.6	34.9	30.8	33.0	30.0	30.5	28.1	31.0	30.9	30.9	30.8	42
44	35.4	33.8	33.7	31.5	29.9	30.9	27.1	29.3	26.3	26.8	24.6	25.3	25.4	25.8	26.2	44
46	32.1	30.5	30.3	28.1	26.5	26.7	23.7	26.0	22.9	22.9	20.5	22.2	22.0	22.4	22.8	46
48	29.0	27.4	27.3	25.1	23.5	23.4	20.6	22.9	19.8	20.1	17.7	19.4	19.0	19.4	19.7	48
50	26.2	24.6	24.4	22.2	20.6	20.4	17.8	20.1	17.0	17.6	15.2	16.8	16.5	16.7	16.9	50
52	21.9	20.4	20.3	18.3	16.8	16.4	14.2	16.3	13.4	13.8	12.9	14.4	14.0	14.1	14.3	52
54	19.6	18.2	18.1	16.1	14.6	14.0	12.0	14.1	11.3	11.9	10.8	12.2	11.8	11.9	11.9	54
56	17.6	16.2	16.0	14.1	12.6	11.9	10.0	12.1	9.3	9.9		10.3	9.8	9.9	9.9	56
58	15.7	14.3	14.2	12.2	10.8	10.0		10.3								58
60	14.0	12.6	12.4	10.5	9.0											60
62	12.3	10.9	10.8													62
64	10.8	9.4	9.3													64
66	9.4															66
t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	t
n	9	9	9	9	10	10	10	10	10	10	10	9	9	9	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s



	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
9	134.1	134.1														9
10	134.1	134.1	134.1	134.1												10
12	134.0	134.1	134.1	134.1	128.0	136.0	135.6									12
14	130.4	131.1	134.1	134.1	127.0	136.0	135.6	136.0	134.6							14
16	126.5	126.5	130.6	130.6	125.0	135.2	133.5	134.3	132.6	132.6	130.9					16
18	115.5	117.0	120.8	120.8	121.6	122.4	119.9	120.7	118.8	119.7	117.8	117.8	116.9	113.4	110.0	18
20	115.1	113.3	113.2	111.0	108.7	110.4	106.4	107.2	104.5	106.4	103.6	103.1	99.5	103.3	105.6	20
22	102.7	100.5	101.1	98.9	97.4	97.9	95.1	95.9	93.1	94.1	92.2	89.7	87.7	89.6	91.6	22
24	92.1	90.0	90.6	89.1	87.6	87.9	85.3	86.0	83.3	82.5	77.4	83.3	82.2	83.7	85.2	24
26	83.0	81.8	81.5	80.0	78.5	78.8	76.2	77.7	75.0	74.5	69.7	69.6	71.2	71.4	71.5	26
28	75.5	74.3	74.7	73.2	71.7	71.3	69.4	70.9	67.5	67.2	62.6	63.0	64.7	64.4	64.2	28
30	70.9	69.0	68.7	66.4	64.9	66.1	62.6	64.2	61.5	61.3	57.0	57.4	58.1	58.3	58.4	30
32	64.9	63.0	62.6	60.8	58.9	60.1	55.8	58.1	54.5	55.4	50.7	51.9	52.2	52.4	52.5	32
34	58.2	56.1	56.2	53.7	51.9	53.3	48.8	51.3	47.6	48.6	44.2	45.4	45.5	45.6	45.8	34
36	52.1	50.0	50.1	47.6	45.8	47.3	42.7	45.2	41.6	42.2	38.6	39.8	39.7	39.8	40.0	36
38	43.3	41.6	41.4	39.2	37.5	38.9	34.6	36.9	33.7	34.2	31.7	34.8	34.4	34.6	34.7	38
40	38.8	37.2	37.0	34.7	33.0	34.5	30.1	32.5	29.3	29.9	27.4	30.3	29.8	30.0	30.1	40
42	34.8	33.1	33.0	30.7	29.1	30.2	26.2	28.5	25.3	26.2	23.7	26.4	26.0	26.0	26.0	42
44	31.2	29.5	29.4	27.1	25.5	26.4	22.6	24.9	21.8	22.6	20.3	21.2	21.0	21.3	21.7	44
46	27.9	26.3	26.1	23.9	22.3	22.5	19.4	21.7	18.6	19.1	16.7	18.3	17.9	18.2	18.5	46
48	25.0	23.4	23.2	21.0	19.4	19.4	16.6	18.9	15.8	16.4	14.1	15.6	15.0	15.3	15.6	48
50	22.3	20.7	20.6	18.4	16.8	16.6	14.0	16.2	13.2	14.0	11.7	13.2	12.7	12.8	13.0	50
52	18.5	17.0	16.9	14.8	13.4	13.0	10.8	12.9	10.0	10.8	9.5	11.0	10.3	10.4	10.6	52
54	16.4	14.9	14.8	12.8	11.3	10.9		10.8				9.0				54
56	14.5	13.0	12.9	10.9	9.5	9.0		9.0								56
58	12.7	11.3	11.2	9.2												58
60	11.1	9.7	9.5													60
62	9.5															62
t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	t
n	8	8	8	8	10	10	10	10	10	10	10	9	9	9	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

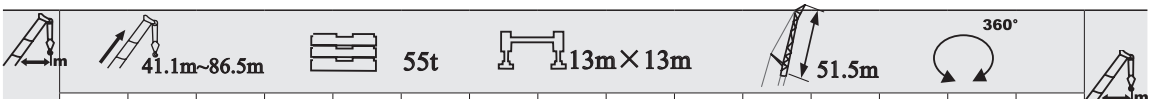


	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
9	132.8	132.8														9
10	132.8	132.8	132.8	132.8												10
12	132.7	132.8	132.8	132.8	128.0	136.0	135.6									12
14	129.1	129.8	132.8	132.8	127.0	136.0	135.6	136.0	134.6							14
16	125.3	125.3	129.3	129.3	125.0	133.0	131.1	132.1	129.2	130.2	128.3					16
18	115.5	117.0	120.8	119.3	117.8	118.6	115.0	115.9	113.1	114.0	112.1	113.1	111.2	110.6	110.0	18
20	111.0	108.8	107.9	105.7	104.2	105.8	101.9	102.6	99.8	101.7	98.8	99.8	98.8	98.3	97.9	20
22	98.9	96.8	96.6	94.3	92.8	93.3	90.6	91.3	88.5	88.8	82.5	85.4	83.4	85.6	87.9	22
24	89.1	87.0	87.6	85.3	83.0	83.3	80.8	82.3	79.5	78.1	73.9	78.8	78.4	79.4	80.5	24
26	81.5	78.8	78.5	77.0	74.7	75.0	72.5	74.0	71.3	70.8	66.2	66.1	67.6	67.7	67.9	26
28	74.0	72.0	71.7	69.4	67.9	67.6	65.7	67.2	64.5	63.5	59.8	60.2	61.0	61.2	61.3	28
30	66.7	64.4	64.6	62.0	60.2	61.3	57.0	59.5	55.7	56.6	51.8	53.0	53.3	53.5	53.7	30
32	58.9	56.7	56.9	54.4	52.5	53.6	49.2	51.8	47.9	49.1	44.6	45.8	45.8	46.0	46.2	32
34	52.2	50.0	50.1	47.6	45.7	46.9	42.5	45.0	41.3	42.5	38.3	39.6	39.4	39.5	39.7	34
36	46.2	44.1	44.2	41.7	39.8	41.1	36.6	39.2	35.5	36.4	32.9	34.2	33.8	33.9	34.0	36
38	38.1	36.4	36.2	33.9	32.2	33.4	29.3	31.6	28.4	29.1	26.6	29.5	28.9	29.0	29.2	38
40	33.8	32.2	32.0	29.7	28.0	29.3	25.1	27.4	24.3	25.2	22.7	25.3	24.6	24.7	24.9	40
42	30.1	28.4	28.2	26.0	24.3	25.3	21.4	23.8	20.6	21.7	19.2	21.6	21.1	21.1	21.0	42
44	26.7	25.1	24.9	22.7	21.0	21.8	18.2	20.5	17.3	18.4	16.1	17.1	16.6	16.9	17.2	44
46	23.7	22.1	21.9	19.7	18.1	18.2	15.2	17.5	14.4	15.2	12.8	14.3	13.7	13.9	14.2	46
48	20.9	19.4	19.2	17.0	15.4	15.3	12.5	14.8	11.7	12.7	10.4	11.9	11.1	11.3	11.5	48
50	18.5	16.9	16.7	14.5	13.0	12.8	10.1	12.4	9.3	10.5		9.6			9.1	50
52	15.0	13.6	13.5	11.4	10.0	9.7		9.5								52
54	13.1	11.7	11.5	9.5												54
56	11.3	9.9	9.8													56
58	9.7															58
t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	t
n	8	8	8	8	10	10	10	10	10	10	10	9	9	9	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s



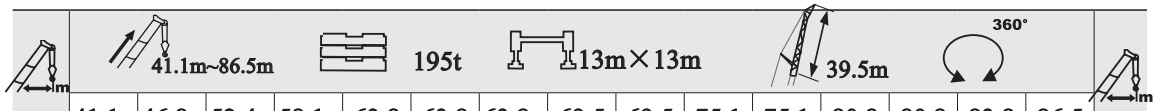
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
9	131.5	131.5														9
10	131.5	131.5	131.5	131.5												10
12	131.4	131.5	131.5	131.5	128.0	136.0	135.6									12
14	127.8	128.5	131.5	131.5	127.0	136.0	135.6	136.0	134.6							14
16	124.0	124.0	128.0	128.0	125.0	127.3	125.4	126.4	123.5	124.5	122.6					16
18	115.5	117.0	114.8	114.8	110.7	112.1	109.3	110.2	108.3	109.3	107.4	107.4	106.4	105.9	105.5	18
20	106.4	103.5	105.1	103.7	98.9	100.5	96.6	98.1	94.0	92.5	89.0	90.9	88.8	88.8	88.9	20
22	95.1	92.3	92.1	89.8	88.3	88.8	86.0	86.8	84.0	84.4	78.1	81.1	79.1	83.3	83.3	22
24	85.3	83.3	83.0	80.8	79.3	79.5	77.0	77.7	75.0	74.5	69.7	75.0	74.6	76.6	76.6	24
26	77.0	75.0	74.7	72.5	70.9	71.2	68.4	70.2	67.0	67.2	62.4	62.6	63.9	64.2	64.2	26
28	68.3	65.9	66.1	63.4	61.5	61.1	58.1	60.7	56.7	57.7	52.7	54.0	54.3	54.6	54.6	28
30	59.4	57.1	57.3	54.6	52.7	53.7	49.4	52.0	48.1	49.3	44.7	46.0	46.0	46.3	46.3	30
32	52.0	49.8	49.8	47.3	45.4	46.4	42.1	44.7	40.9	42.2	37.9	39.2	39.0	39.3	39.3	32
34	45.6	43.5	43.5	41.0	39.1	40.1	35.9	38.4	34.7	36.2	32.1	33.4	33.0	33.3	33.3	34
36	40.1	38.0	38.0	35.5	33.7	34.7	30.5	33.0	29.4	30.5	27.1	28.5	27.9	28.1	28.1	36
38	32.7	31.0	30.9	28.6	26.9	27.9	23.9	26.3	23.1	24.1	21.5	24.1	23.4	23.6	23.6	38
40	28.8	27.2	27.0	24.7	23.0	24.0	20.1	22.4	19.3	20.4	17.9	20.3	19.4	19.6	19.6	40
42	25.3	23.7	23.5	21.3	19.6	20.4	16.7	19.0	15.9	17.2	14.7	16.9	16.1	16.1	16.1	42
44	22.2	20.6	20.4	18.2	16.6	17.1	13.7	16.0	12.9	14.2	11.8	12.9	12.2	12.6	12.6	44
46	19.4	17.8	17.7	15.4	13.8	13.9	11.0	13.3	10.2	11.3		10.4	9.5	9.9	9.9	46
48	16.9	15.3	15.2	13.0	11.4	11.3		10.8		9.1						48
50	14.6	13.0	12.9	10.7	9.1	9.0										50
52	11.6	10.2	10.0													52
54	9.8															54
t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	t
n	8	8	8	8	10	10	10	10	10	10	10	9	9	9	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	41.1m~86.5m				75t			13m×13m			51.5m	360°				m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
9	130.2	130.2														9
10	130.2	130.2	130.2	130.2												10
12	130.1	130.3	130.3	130.3	128.0	136.0	135.6									12
14	126.5	127.2	130.5	130.5	127.0	136.0	136.0	136.0	134.6							14
16	122.8	122.8	126.7	126.7	126.0	135.2	131.8	133.5	129.3	118.8	116.9					16
18	114.0	112.5	113.7	113.7	107.1	107.9	104.1	104.9	101.2	101.3	97.7	99.6	97.4	97.5	97.5	18
20	101.1	99.0	104.0	102.6	94.3	95.9	92.1	92.8	88.8	88.0	84.5	88.9	85.7	89.3	90.8	20
22	90.6	87.8	87.6	85.3	83.8	84.2	81.5	83.0	79.5	79.9	73.9	76.7	75.5	77.5	78.8	22
24	81.5	78.8	78.5	76.2	74.6	74.9	71.0	73.8	69.5	70.1	64.7	70.7	69.2	70.4	71.8	24
26	69.7	67.2	67.4	64.7	62.6	62.9	59.2	61.9	57.8	58.8	53.7	54.7	55.3	55.4	55.7	26
28	59.8	57.5	57.6	54.9	53.0	52.7	49.6	52.3	48.3	49.5	44.8	46.1	46.1	46.2	46.4	28
30	51.7	49.4	49.5	46.9	45.0	45.8	41.6	44.3	40.4	41.8	37.5	38.8	38.5	38.6	38.8	30
32	44.8	42.7	42.7	40.1	38.2	39.1	35.0	37.6	33.8	35.3	31.3	32.6	32.1	32.2	32.4	32
34	39.0	36.9	36.9	34.4	32.5	33.4	29.3	31.8	28.1	29.8	26.0	27.3	26.6	26.7	26.9	34
36	33.9	31.9	31.9	29.4	27.5	28.4	24.3	26.9	23.3	24.7	21.4	22.8	21.9	22.0	22.2	36
38	27.4	25.7	25.5	23.2	21.5	22.3	18.6	20.9	17.7	19.0	16.5	18.8	17.8	17.9	18.0	38
40	23.8	22.1	22.0	19.7	18.0	18.8	15.1	17.4	14.3	15.7	13.1	15.3	14.2	14.3	14.4	40
42	20.6	19.0	18.8	16.5	14.9	15.5	12.0	14.3	11.2	12.7	10.2	12.2	11.2	11.1	11.2	42
44	17.8	16.1	16.0	13.7	12.1	12.5	9.2	11.5		10.0						44
46	15.2	13.6	13.4	11.2	9.6	9.7		9.0								46
48	12.9	11.3	11.1													48
50	10.8	9.2	9.0													50
t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	t
n	8	8	8	8	10	10	10	10	10	10	10	9	9	9	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

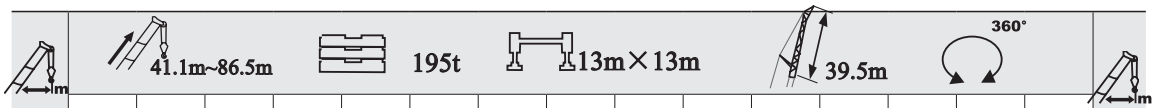


	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
9	128.8	128.8														9
10	128.8	128.8	128.8	128.8												10
12	128.8	129.0	129.0	129.0	128.0	136.0	135.6									12
14	125.2	125.9	129.2	129.2	127.0	134.9	132.1	133.0	130.2							14
16	121.5	121.5	125.5	125.5	115.4	116.9	114.0	115.0	113.1	114.0	111.2					16
18	107.6	109.0	112.6	112.6	100.6	101.7	99.5	100.7	97.9	99.8	96.9	97.9	96.9	96.4	96.0	18
20	105.1	103.7	103.0	101.6	80.8	82.7	78.9	81.8	77.7	80.6	77.1	78.9	76.9	76.9	76.9	20
22	70.7	69.7	69.2	68.2	65.2	67.0	63.3	66.2	62.2	65.0	61.6	63.4	61.4	61.4	61.5	22
24	64.5	63.5	62.9	61.4	53.0	54.8	51.2	54.0	50.1	52.8	49.5	51.3	49.3	49.4	49.4	24
26	42.0	41.3	41.3	40.2	43.3	45.1	41.5	44.3	40.4	43.1	39.9	41.6	39.7	39.7	39.8	26
28	38.2	37.5	37.5	36.4	35.3	37.0	33.5	36.3	32.5	35.1	31.9	33.7	31.7	31.8	31.8	28
30	33.4	32.7	32.4	31.7	28.6	30.4	26.9	29.6	25.8	28.5	25.3	27.0	25.1	25.2	25.2	30
32	29.4	28.7	28.4	27.7	23.0	24.7	21.2	24.0	20.2	22.8	19.7	21.4	19.5	19.6	19.6	32
34	25.6	24.9	24.9	24.0	18.1	19.8	16.4	19.1	15.4	18.0	14.9	16.6	14.7	14.8	14.8	34
36	22.6	22.0	22.0	21.1	13.9	15.6	12.2	14.9	11.2	13.8	10.7	12.4	10.6	10.6	10.7	36
38	15.7	15.5	15.3	14.8	10.2	11.9	8.5	11.2	7.5	10.1	7.0	8.7	6.9	7.0	7.0	38
40	9.4	9.3	9.1	8.8	6.9	8.6	5.3	7.9		6.9		5.5				40
42	7.8	7.6	7.6	7.2		5.7		5.0								42
44	6.9	6.6	6.6	6.3												44
46	6.0	5.8	5.8	5.4												46
t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	150t	t
n	8	8	8	8	10	10	10	10	10	10	10	9	9	9	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

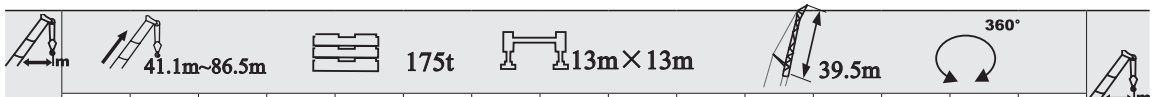
6-1-2 On fully extended outriggers, with wind power jib of 39.5m



m	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	m
8	160.5	160.5														8
9	160.2	160.5	160.5	160.5												9
10	156.3	160.5	160.5	160.5	162.1	161.6	162.6									10
12	156.3	160.5	160.5	160.5	162.1	161.6	162.6	162.6	163.0							12
14	151.6	155.9	155.9	159.0	161.1	162.0	160.2	161.1	161.0	170.0	161.0					14
16	149.3	153.5	153.5	152.9	153.0	153.9	152.0	152.0	150.1	156.0	150.5	155.0	155.0	152.5	150.0	16
18	141.0	139.9	137.7	136.0	136.8	137.8	135.9	136.8	134.9	153.0	134.0	145.0	133.0	136.5	145.0	18
20	128.4	126.9	125.0	123.4	124.0	125.4	122.6	123.5	120.7	141.0	119.7	138.0	118.8	128.4	138.0	20
22	114.8	113.2	112.7	110.2	110.7	112.1	109.3	111.2	108.3	118.0	107.4	120.0	106.4	121.2	136.0	22
24	103.4	101.8	101.4	98.9	99.3	100.7	97.9	99.8	96.9	105.0	96.0	105.0	96.0	102.0	108.0	24
26	93.5	92.0	92.0	89.5	89.8	91.2	88.4	90.3	87.4	89.3	86.5	87.4	86.5	86.5	86.5	26
28	85.1	83.6	82.5	81.0	78.6	77.4	75.2	77.4	77.0	80.2	76.7	78.8	76.7	76.9	77.1	28
30	77.5	76.0	75.0	73.5	71.7	70.8	67.9	70.1	67.9	69.9	66.4	68.5	66.4	66.6	66.8	30
32	70.7	69.9	69.0	67.5	64.8	64.2	62.1	64.2	61.3	63.5	61.3	62.8	61.3	61.3	61.3	32
34	65.4	63.8	63.0	61.5	59.4	59.1	56.9	58.4	56.2	57.7	56.2	56.9	56.2	56.2	56.2	34
36	60.0	59.3	58.5	57.0	54.0	54.0	51.8	54.0	51.1	53.3	51.1	52.6	51.1	51.1	51.1	36
38	52.6	51.8	51.1	49.7	48.1	47.6	45.5	47.6	44.8	46.9	44.8	46.2	44.8	44.8	44.8	38
40	49.0	47.5	46.9	45.4	44.3	44.1	41.3	43.4	41.3	42.7	41.3	42.0	41.3	41.3	41.3	40
42	45.4	43.9	43.7	41.9	40.5	40.6	38.5	39.9	37.8	39.9	37.6	38.5	37.7	28.7	37.8	42
44	41.8	41.0	40.5	39.1	36.7	37.1	34.4	37.1	33.7	36.4	33.5	35.3	33.6	25.7	33.9	44
46	40.5	39.8	39.8	37.9	33.6	36.2	32.9	35.8	32.2	35.0	32.0	33.9	32.1	24.5	32.4	46
48	36.4	35.0	34.6	32.4	28.3	30.9	27.7	30.5	27.1	29.8	26.9	28.7	27.0	20.6	27.3	48
50	33.2	31.8	31.5	29.3	25.1	27.8	24.6	27.4	24.0	26.7	23.8	25.6	23.9	18.3	24.2	50
52	30.3	28.9	28.6	26.5	22.2	25.0	21.8	24.6	21.2	23.8	21.0	22.8	21.1	14.5	21.4	52
54	24.9	23.6	23.4	21.5	17.5	20.2	17.3	19.8	16.8	19.2	16.6	18.2	16.7	11.5	17.0	54
56	22.7	21.4	21.2	19.3	15.2	18.0	15.2	17.7	14.6	17.0	14.5	16.1	14.6	10.0	14.9	56
58	20.6	19.4	19.2	17.3	12.9	16.0	13.2	15.7	12.7	15.0	12.5	14.1	12.6	8.7	12.9	58
60	18.7	17.4	17.3	15.5	10.7	14.1	11.3	13.8	10.8	13.2	10.7	12.3	10.8	7.4	11.1	60
62	16.9	15.7	15.6	13.7	9.0	12.4	9.6	12.1	9.1	11.5	9.0	10.5	9.1	7.4	9.4	62
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	150t	t
n	10	10	10	10	10	10	10	10	10	10	10	9	9	9	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

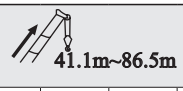


	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
64	15.2	14.0	13.8	11.9		10.6		10.3		9.7						64
66	13.6	12.4	12.3	10.4		9.2										66
68	12.1	11.0	10.8	9.0												68
70	10.7	9.6	9.5													70
72	9.3															72
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	150t	t
n	10	10	10	10	10	10	10	10	10	10	10	9	9	9	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

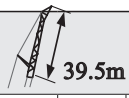


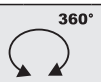
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
8	160.5	160.5														8
9	160.2	160.5	160.5	160.5												9
10	156.3	160.5	160.5	160.5	159.8	161.6	158.1									10
12	156.3	160.5	160.5	160.5	159.8	161.6	158.1	162.6	163.0							12
14	151.6	155.9	155.9	159.0	159.8	161.6	158.1	161.1	161.0	161.5	161.0					14
16	149.3	153.5	153.5	152.9	150.1	151.1	149.2	150.1	148.2	149.2	147.3	147.3	146.3	145.8	145.4	16
18	138.2	135.7	134.9	133.3	133.5	134.9	132.1	134.0	131.1	132.1	130.2	130.2	129.2	128.7	128.3	18
20	125.0	123.3	122.5	120.9	118.3	119.7	116.9	118.8	115.9	116.9	115.0	115.9	114.0	114.0	114.0	20
22	112.8	111.2	110.4	108.0	105.9	107.4	104.5	106.4	103.6	104.5	102.6	103.6	101.7	101.7	101.7	22
24	101.7	100.1	99.3	96.9	94.5	96.0	93.1	95.0	92.2	94.1	92.2	93.1	91.2	91.2	91.2	24
26	89.7	88.9	87.8	86.5	84.5	88.1	85.3	87.2	83.6	86.2	83.4	84.4	83.4	83.0	82.7	26
28	82.1	80.6	79.5	78.0	75.6	74.5	72.3	74.5	73.9	77.1	73.6	75.8	73.7	73.9	74.1	28
30	74.5	73.7	72.8	70.5	68.7	67.9	65.7	67.2	65.0	67.7	63.5	66.3	63.6	63.7	63.9	30
32	68.4	66.9	66.0	64.5	62.6	62.1	59.9	61.3	59.1	60.6	59.1	59.9	59.1	59.1	59.1	32
34	63.1	61.6	60.8	59.3	56.5	56.2	54.0	56.2	54.0	55.5	53.3	54.8	53.3	53.7	54.0	34
36	57.8	57.0	56.3	54.0	51.8	51.8	50.4	51.1	50.3	51.1	50.1	50.4	50.1	50.2	50.4	36
38	50.4	49.7	49.0	48.9	47.1	46.6	43.4	46.2	42.7	45.4	42.5	44.3	42.6	42.7	42.9	38
40	48.2	46.7	46.1	43.9	41.9	41.7	38.5	41.3	37.9	40.5	37.7	39.4	37.7	33.4	38.0	40
42	43.7	42.2	41.4	39.5	37.3	37.4	34.2	37.0	33.6	36.2	33.3	35.1	33.4	25.5	33.7	42
44	39.6	38.1	37.7	35.5	33.1	33.5	30.3	33.1	29.7	32.3	29.5	31.3	29.6	22.6	29.9	44
46	37.5	35.9	36.1	33.7	29.8	32.1	28.8	31.7	28.1	30.9	27.9	29.8	28.0	21.4	28.3	46
48	32.7	31.2	30.9	28.7	24.9	27.2	24.0	26.8	23.4	26.0	23.2	25.0	23.3	17.8	23.6	48
50	29.6	28.2	27.9	25.8	21.9	24.2	21.1	23.9	20.5	23.1	20.3	22.1	20.4	15.6	20.7	50
52	26.9	25.4	25.2	23.1	19.2	21.6	18.4	21.2	17.8	20.4	17.6	19.4	17.7	12.2	18.0	52
54	21.9	20.7	20.5	18.6	15.0	17.2	14.3	16.9	13.8	16.2	13.6	15.2	13.7	9.4	14.0	54
56	19.8	18.6	18.4	16.5	12.8	15.1	12.3	14.8	11.7	14.1	11.6	13.2	11.6	8.0	11.9	56
58	17.8	16.6	16.5	14.5	10.7	13.2	10.4	12.9	9.8	12.2	9.6	11.3	9.7	6.7	10.0	58
60	16.0	14.7	14.7	12.8		11.4		11.1		10.4		9.5				60
62	14.2	13.0	13.0	11.1		9.8		9.5								62
64	12.6	11.4	11.3	9.4												64
66	11.1															66
68	9.6															68
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	150t	t
n	10	10	10	10	10	10	10	10	10	10	10	9	9	9	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s






155t



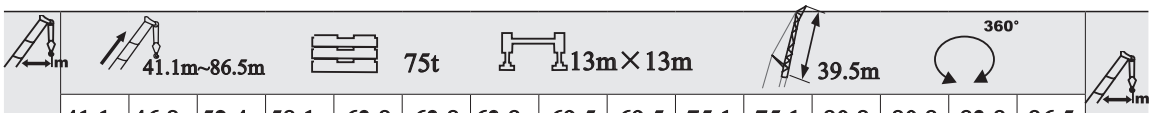


	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
8	160.5	160.5														8
9	160.2	160.5	160.5	160.5												9
10	156.3	160.5	160.5	160.5	159.8	161.6	158.1									10
12	156.3	160.5	160.5	160.5	159.8	161.6	158.1	162.6	163.0							12
14	151.6	155.9	155.9	159.0	159.8	161.6	158.1	161.1	161.0	161.5	161.0					14
16	149.3	153.5	153.5	152.9	145.8	147.3	144.4	145.4	142.5	144.4	141.6	142.5	140.6	140.1	139.7	16
18	131.3	129.0	128.2	126.6	127.8	129.2	126.4	128.3	125.4	126.4	124.5	125.4	123.5	123.0	122.6	18
20	118.7	117.2	116.4	114.9	113.5	115.0	112.1	114.0	111.2	112.1	110.2	111.2	109.3	109.3	109.3	20
22	107.2	105.7	104.9	102.6	101.2	102.6	99.8	101.7	98.8	100.7	97.9	98.8	97.9	97.4	96.9	22
24	96.7	95.1	94.4	92.1	88.7	90.8	86.7	90.2	85.8	89.1	85.5	87.7	85.5	85.7	85.9	24
26	86.0	86.0	83.7	83.6	79.6	85.1	82.3	84.2	79.9	83.2	80.4	81.4	80.4	79.7	79.0	26
28	79.1	77.6	76.6	75.1	72.8	71.7	69.5	71.7	71.0	74.2	70.8	72.9	70.8	71.0	71.2	28
30	71.6	71.5	70.6	67.6	65.9	65.1	63.6	64.4	62.2	65.5	60.8	64.2	60.8	61.0	61.2	30
32	66.2	64.0	63.1	61.6	60.5	59.9	57.7	58.5	57.0	57.8	57.0	57.1	57.0	57.0	57.0	32
34	60.9	59.4	58.6	57.1	53.7	53.4	51.2	54.1	51.9	53.4	50.5	52.6	50.5	51.2	51.9	34
36	55.6	54.8	54.1	51.2	49.7	49.7	49.0	48.3	49.5	49.0	49.0	48.3	49.2	49.4	49.7	36
38	48.3	47.6	46.9	48.0	46.1	45.6	41.4	44.8	40.8	43.9	40.3	42.5	40.5	40.8	41.1	38
40	47.5	45.9	45.4	42.4	39.6	39.5	36.0	39.3	34.7	38.5	34.3	37.0	34.5	31.5	35.1	40
42	42.1	40.5	39.2	37.2	34.3	34.4	30.4	34.3	29.8	32.8	29.6	32.0	29.6	22.7	30.1	42
44	37.6	35.4	35.2	32.3	29.9	30.2	26.8	29.5	26.1	28.7	25.9	27.7	26.0	19.9	26.3	44
46	34.7	32.5	32.7	30.1	26.4	28.5	25.1	28.0	24.5	27.2	24.3	26.1	24.4	18.6	24.7	46
48	29.3	27.8	27.6	25.4	21.9	23.9	20.8	23.5	20.2	22.8	20.0	21.7	20.1	15.4	20.4	48
50	26.4	25.0	24.8	22.6	19.1	21.1	18.1	20.8	17.4	20.0	17.3	19.0	17.3	13.3	17.7	50
52	23.8	22.4	22.2	20.1	16.6	18.6	15.5	18.3	14.9	17.5	14.7	16.5	14.8	10.2	15.1	52
54	19.3	18.1	17.9	16.0	12.8	14.7	11.9	14.4	11.3	13.7	11.2	12.7	11.2	7.8	11.5	54
56	17.3	16.1	16.0	14.1	10.7	12.7	9.9	12.4	9.4	11.7	9.2	10.8	9.3	6.4	9.6	56
58	15.4	14.2	14.1	12.2		10.9		10.6		9.9		9.0				58
60	13.7	12.4	12.4	10.5		9.2										60
62	12.0	10.8	10.8	9.0												62
64	10.5	9.3	9.2													64
66	9.0															66
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	150t	150t	150t	150t	t
n	10	10	10	10	10	10	10	10	10	10	10	9	9	9	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	41.1m~86.5m					135t		13m×13m			39.5m		360°			m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
8	160.5	160.5														8
9	160.2	160.5	160.5	160.5												9
10	156.3	160.5	160.5	160.5	159.8	161.6	158.1									10
12	156.3	160.5	160.5	160.5	159.8	161.6	158.1	162.6	163.0							12
14	151.6	155.9	155.9	159.0	159.8	161.6	158.1	160.6	157.7	158.7	156.8					14
16	141.8	145.8	145.8	145.3	140.1	141.6	138.7	139.7	136.8	137.8	135.9	135.9	134.9	134.4	134.0	16
18	124.7	122.5	121.8	120.3	123.0	124.5	121.6	122.6	119.7	121.6	118.8	119.7	118.8	118.3	117.8	18
20	112.8	111.3	110.6	109.1	108.8	110.2	107.4	109.3	106.4	107.4	105.5	106.4	104.5	104.5	104.5	20
22	101.8	100.4	99.6	97.5	94.9	96.9	92.8	96.3	91.9	95.3	91.5	93.8	91.6	91.7	91.9	22
24	91.8	90.4	89.7	87.5	79.4	81.5	77.4	80.9	76.5	79.9	76.2	78.4	76.2	76.4	76.6	24
26	82.8	81.3	81.3	79.2	71.2	78.1	75.4	77.2	72.6	76.4	73.7	74.7	73.7	72.7	71.8	26
28	72.5	71.1	70.1	68.7	66.5	65.6	63.4	65.5	64.8	67.8	64.6	66.6	64.6	64.8	65.0	28
30	65.3	65.9	65.0	61.6	60.0	59.3	58.5	58.6	56.5	60.3	55.2	59.0	55.3	55.5	55.6	30
32	60.9	58.1	57.4	55.9	55.5	55.0	52.9	53.1	52.2	52.4	52.2	51.7	52.2	52.2	52.2	32
34	55.8	54.4	53.7	52.2	48.5	48.3	46.2	49.5	47.4	48.8	45.5	48.1	45.5	46.4	47.4	34
36	50.8	50.1	49.4	46.0	45.3	45.3	45.2	43.4	46.3	44.6	45.6	43.9	45.8	46.2	46.5	36
38	44.0	43.3	42.7	44.8	42.9	42.4	37.5	41.3	36.9	40.4	36.4	38.7	36.5	36.9	37.3	38
40	44.5	42.8	42.5	38.9	35.6	35.5	31.9	35.6	30.3	34.7	29.8	33.0	29.9	28.5	30.7	40
42	38.5	36.9	35.3	33.3	30.0	30.1	25.7	30.2	25.1	28.3	24.9	27.8	25.0	19.2	25.5	42
44	33.9	31.3	31.1	27.9	25.6	25.9	22.4	25.0	21.8	24.2	21.6	23.3	21.7	16.6	22.0	44
46	30.5	27.9	28.2	25.4	22.2	24.0	20.9	23.6	20.3	22.8	20.1	21.8	20.2	15.4	20.5	46
48	24.9	23.6	23.4	21.4	18.3	20.0	17.1	19.6	16.5	18.9	16.4	18.0	16.4	12.6	16.7	48
50	22.4	21.0	20.9	18.9	15.9	17.5	14.7	17.2	14.1	16.5	13.9	15.5	14.0	10.8	14.3	50
52	20.0	18.7	18.6	16.6	13.6	15.3	12.5	15.0	11.9	14.3	11.7	13.3	11.8	8.1	12.1	52
54	16.2	15.0	14.9	13.1	10.4	11.9	9.3	11.6		11.0		10.1			9.0	54
56	14.4	13.2	13.2	11.4	8.6	10.2		9.9		9.3						56
58	12.7	11.5	11.5	9.7												58
60	11.1	10.0	10.0													
62	9.6															
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	150t	150t	150t	150t	t
n	10	10	10	10	10	10	10	10	10	10	10	9	9	8	8	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	41.1m~86.5m				115t		13m×13m				39.5m	360°			m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
8	160.5	160.5														8
9	160.2	160.5	160.5	160.5												9
10	156.3	160.5	160.5	160.5	159.8	161.6	158.1									10
12	156.3	160.5	160.5	160.5	159.8	161.6	158.1	162.6	163.0							12
14	144.0	148.1	148.1	151.0	159.8	161.6	158.1	153.9	151.1	152.0	150.1					14
16	134.7	138.5	138.5	138.0	134.0	134.9	133.0	134.0	131.1	132.1	130.2	130.2	129.2	128.7	128.3	16
18	118.5	116.4	115.7	114.3	117.3	118.8	115.9	117.8	115.0	115.9	114.0	114.0	113.1	112.6	112.1	18
20	107.2	105.8	105.1	103.7	102.5	104.5	100.6	103.6	99.6	102.6	99.2	100.7	99.3	99.5	99.6	20
22	96.7	95.4	94.7	92.6	84.4	86.5	82.3	85.9	81.4	84.8	81.1	83.3	81.1	81.3	81.5	22
24	87.2	85.9	85.2	83.1	70.1	72.2	68.1	71.6	67.2	70.6	66.9	69.1	66.9	67.1	67.3	24
26	78.6	77.3	77.3	75.2	60.5	68.0	65.7	67.3	62.6	66.5	64.2	65.0	64.2	63.0	61.9	26
28	66.5	65.2	65.2	63.3	57.8	56.9	55.0	56.9	56.2	58.9	56.0	57.8	56.0	56.2	56.4	28
30	57.5	57.7	56.9	54.5	51.9	51.3	51.1	50.7	48.8	52.7	47.7	51.6	47.8	47.9	48.0	30
32	53.2	50.2	49.5	48.3	48.4	47.9	46.1	45.7	45.5	45.1	45.5	44.5	45.5	45.5	45.5	32
34	48.6	47.3	46.7	45.4	41.6	41.4	39.5	43.0	41.1	42.4	38.9	41.7	38.9	40.0	41.1	34
36	44.1	43.4	42.9	39.4	39.3	39.2	39.6	37.1	41.1	38.6	40.3	38.0	40.6	41.0	41.4	36
38	38.1	37.5	37.0	39.8	37.9	37.5	32.3	36.2	31.8	35.3	31.1	33.5	31.4	31.8	32.3	38
40	39.5	37.9	37.8	33.9	30.4	30.3	26.8	30.5	25.1	29.7	24.5	28.0	24.7	25.1	25.5	40
42	33.5	32.0	30.2	28.3	24.9	25.0	20.6	25.2	20.1	23.2	19.9	22.9	20.0	15.4	20.6	42
44	29.1	26.2	26.2	22.9	20.9	21.1	17.8	20.1	17.3	19.4	17.2	18.6	17.2	13.2	17.5	44
46	25.5	22.7	23.1	20.5	17.8	19.2	16.5	18.8	16.0	18.2	15.8	17.3	15.9	12.2	16.1	46
48	20.2	19.0	18.8	17.1	14.5	15.9	13.4	15.6	12.9	14.9	12.7	14.1	12.8	9.8	13.0	48
50	18.0	16.8	16.7	15.0	12.5	13.8	11.3	13.5	10.9	12.9	10.7	12.1	10.8	8.3	11.0	50
52	16.0	14.9	14.8	13.1	10.6	11.9	9.0	11.6	8.0	11.1		10.2		6.2	8.0	52
54	12.8	11.8	11.8	10.2		9.2										54
56	11.3	10.3	10.3													56
58	9.9															58
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	150t	150t	150t	150t	t
n	10	10	10	10	10	10	10	10	10	10	9	8	8	8	8	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	41.1m~86.5m				95t			13m×13m			39.5m		360°			m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
8	160.5	160.5														8
9	160.2	160.5	160.5	160.5												9
10	156.3	160.5	160.5	160.5	159.8	161.6	158.1									10
12	156.3	160.5	160.5	160.5	159.8	161.6	158.1	162.6	163.0							12
14	136.8	140.7	140.7	143.5	159.8	161.6	158.1	147.3	144.4	145.4	143.5					14
16	128.0	131.6	131.6	131.1	127.8	129.2	126.4	128.3	125.4	126.4	124.5	124.5	123.5	123.0	122.6	16
18	112.6	110.6	109.9	108.6	111.6	113.1	110.2	112.1	109.3	111.2	108.3	109.3	107.4	107.4	107.4	18
20	101.8	100.5	99.8	98.5	90.7	92.9	88.6	92.3	87.6	91.2	87.3	89.6	87.3	87.5	87.7	20
22	91.9	90.6	89.9	88.0	73.9	76.0	71.9	75.4	70.9	74.4	70.6	72.9	70.6	70.8	71.0	22
24	82.9	81.6	80.9	79.0	60.8	62.9	58.8	62.3	57.9	61.3	57.6	59.8	57.6	57.8	58.0	24
26	70.8	69.5	69.5	67.7	50.3	53.4	51.5	52.8	48.6	52.2	50.3	51.0	50.3	49.2	48.1	26
28	59.8	58.7	58.7	57.0	45.2	44.5	43.0	44.5	43.9	46.0	43.7	45.1	43.7	43.9	44.0	28
30	51.8	50.7	50.7	49.1	40.5	39.9	40.1	39.4	37.9	41.4	37.1	40.6	37.1	37.2	37.3	30
32	45.4	44.4	44.4	43.4	38.0	37.6	36.1	35.5	35.6	35.0	35.6	34.5	35.6	35.6	35.6	32
34	38.1	37.1	36.6	35.5	32.1	32.0	30.5	33.6	32.1	33.1	30.0	32.6	30.0	31.0	32.1	34
36	34.5	33.9	33.5	30.3	30.6	30.6	31.3	28.5	32.9	30.1	32.1	29.6	32.3	32.7	33.1	36
38	29.7	29.2	28.8	31.8	30.1	29.8	25.0	28.5	24.6	27.7	24.0	26.1	24.2	24.6	25.1	38
40	31.6	30.3	30.2	26.6	23.4	23.3	20.3	23.6	18.7	22.9	18.1	21.4	18.3	18.7	19.1	40
42	26.2	25.0	23.2	21.6	18.6	18.7	14.9	19.0	14.5	17.1	14.3	16.9	14.4	11.1	14.9	42
44	22.4	19.8	19.8	16.9	15.3	15.5	12.8	14.6	12.4	14.0	12.3	13.4	12.3	9.4	12.5	44
46	19.1	16.7	17.0	14.8	12.8	13.8	11.7	13.5	11.3	13.0	11.2	12.3	11.2	8.6	11.4	46
48	14.7	13.7	13.6	12.3	10.4	11.3	9.4	11.1	9.0	10.6		10.0	9.0	6.9	9.1	48
50	13.0	12.1	12.0	10.7		9.8		9.5		9.1						50
52	11.5	10.6	10.6	9.3												52
54	9.2															54
56	5.0															56
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	150t	150t	150t	150t	150t	150t	t
n	10	10	10	10	10	10	10	10	10	9	9	8	8	8	8	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

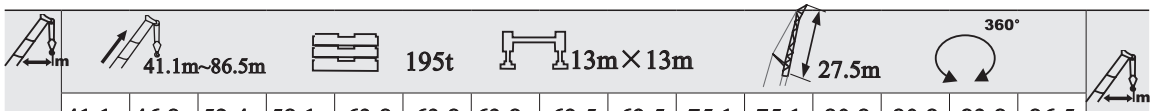


	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
8	160.5	160.5														8
9	160.2	160.5	160.5	160.5												9
10	156.3	160.5	160.5	160.5	159.8	161.6	158.1									10
12	156.3	160.5	160.5	160.5	159.8	161.6	158.1	162.6	162.5							12
14	130.0	133.7	133.7	136.3	141.1	142.5	139.7	140.6	137.8	138.7	136.8					14
16	121.6	125.0	125.0	124.5	122.1	123.5	120.7	121.6	119.7	120.7	117.8	118.8	117.8	117.3	116.9	16
18	106.9	105.0	104.4	103.1	99.2	101.4	96.9	100.7	95.9	99.6	95.6	98.0	95.6	95.8	96.0	18
20	96.7	95.4	94.8	93.5	78.8	80.9	76.7	80.3	75.7	79.2	75.3	77.7	75.4	75.6	75.7	20
22	87.3	86.1	85.4	83.6	63.5	65.6	61.4	65.0	60.5	63.9	60.1	62.4	60.2	60.4	60.5	22
24	78.7	77.5	76.9	75.0	51.5	53.6	49.5	53.0	48.6	52.0	48.3	50.5	48.4	48.5	48.7	24
26	63.7	62.6	62.6	60.9	42.0	44.0	40.0	43.4	39.1	42.4	38.8	41.0	38.9	39.0	39.2	26
28	53.9	52.8	52.8	51.3	34.1	36.1	32.2	35.6	31.3	34.6	31.0	33.2	31.1	31.3	31.4	28
30	41.4	40.6	40.6	39.3	27.6	29.5	25.6	29.0	24.8	28.0	24.5	26.7	24.6	24.8	24.9	30
32	31.8	31.1	31.1	30.4	22.0	24.0	20.1	23.5	19.3	22.5	19.0	21.2	19.1	19.3	19.4	32
34	25.0	24.4	24.4	23.8	17.3	19.2	15.4	18.7	14.6	17.7	14.3	16.4	14.4	14.5	14.7	34
36	22.1	21.5	21.5	20.9	13.1	15.0	11.2	14.5	10.5	13.6	10.2	12.3	10.3	10.4	10.6	36
38	19.1	18.9	18.9	18.0	9.5	11.4	7.6	10.9	6.8	10.0	6.6	8.7	6.7	6.9	7.0	38
40	13.6	13.4	13.4	12.8	6.9	8.2		7.7		6.8		5.5				40
42	10.9	10.5	10.5	10.2		5.3										42
44	8.1	7.8	7.8	7.3												44
46	6.9	6.6	6.6	6.3												46
48	5.9	5.7	5.7	5.4												48
50	5.2	5.0	5.0	4.7												50
52				6.0												52
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	150t	150t	150t	150t	150t	150t	t
n	10	10	10	10	10	10	10	10	10	9	9	7	7	7	7	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	41.1m~86.5m				55t			13m×13m			39.5m		360°			m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
8	152.4	152.4														8
9	152.2	152.4	152.4	152.4												9
10	148.5	152.4	152.4	152.4	159.8	161.6	158.1									10
12	148.5	152.4	152.4	152.4	150.3	151.2	149.4	149.4	147.6							12
14	123.5	127.0	127.0	129.5	128.3	129.6	126.9	127.8	125.1	126.0	124.2					14
16	115.5	118.8	118.8	118.3	110.3	111.6	108.9	110.7	108.0	108.9	107.1	107.1	106.2	105.8	105.3	16
18	101.6	99.8	99.2	98.0	96.3	97.2	95.4	96.3	93.6	95.4	92.7	93.6	92.7	92.3	91.8	18
20	91.9	90.7	90.1	88.9	78.8	80.9	76.7	80.3	75.7	79.2	75.3	77.7	75.4	75.6	75.7	20
22	82.9	81.8	81.2	79.4	63.5	65.6	61.4	65.0	60.5	63.9	60.1	62.4	60.2	60.4	60.5	22
24	74.8	73.6	73.0	71.3	51.5	53.6	49.5	53.0	48.6	52.0	48.3	50.5	48.4	48.5	48.7	24
26	57.3	56.3	56.3	54.8	42.0	44.0	40.0	43.4	39.1	42.4	38.8	41.0	38.9	39.0	39.2	26
28	48.5	47.5	47.5	46.2	34.1	36.1	32.2	35.6	31.3	34.6	31.0	33.2	31.1	31.3	31.4	28
30	33.1	32.4	32.4	31.4	27.6	29.5	25.6	29.0	24.8	28.0	24.5	26.7	24.6	24.8	24.9	30
32	22.3	21.8	21.8	21.3	22.0	24.0	20.1	23.5	19.3	22.5	19.0	21.2	19.1	19.3	19.4	32
34	17.5	17.1	17.1	16.6	17.3	19.2	15.4	18.7	14.6	17.7	14.3	16.4	14.4	14.5	14.7	34
36	15.5	15.0	15.0	14.6	13.1	15.0	11.2	14.5	10.5	13.6	10.2	12.3	10.3	10.4	10.6	36
38	13.4	13.2	13.2	12.6	9.5	11.4	7.5	10.9	6.7	10.0	6.4	8.7	6.5	6.7	6.9	38
40	8.2	8.0	8.0	7.7	6.9	8.2		7.7		6.7		5.3				40
42	6.5	6.3	6.3	6.1		5.1										42
t	240t	240t	240t	240t	240t	240t	240t	150t	150t	150t	150t	150t	150t	150t	150t	t
n	10	10	10	10	10	10	10	9	9	8	8	7	7	7	7	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	41.1m~86.5m				35t		13m×13m			39.5m		360°			m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
8	152.4	152.4														8
9	152.2	152.4	152.4	152.4												9
10	148.5	152.4	152.4	152.4	159.8	161.6	158.1									10
12	148.5	152.4	152.4	152.4	150.1	151.1	149.2	150.1	147.3							12
14	117.3	120.6	120.6	123.0	127.5	129.2	125.8	127.3	124.7	126.4	123.5					14
16	109.7	112.8	112.8	112.4	94.2	96.5	91.8	95.8	90.8	94.5	90.3	92.9	90.4	90.5	90.7	16
18	96.5	94.8	94.2	93.1	71.3	73.5	69.1	72.8	68.1	71.7	67.7	70.1	67.7	67.9	68.1	18
20	87.3	86.1	85.6	84.4	54.9	57.0	52.8	56.4	51.8	55.3	51.4	53.8	51.5	51.7	51.8	20
22	78.8	77.7	77.1	75.4	42.6	44.7	40.5	44.1	39.6	43.0	39.2	41.5	39.3	39.5	39.6	22
24	71.1	69.9	69.4	67.7	33.0	35.0	30.9	34.4	30.0	33.4	29.7	31.9	29.8	29.9	30.1	24
26	51.6	50.7	50.7	49.4	25.3	27.3	23.2	26.7	22.4	25.7	22.1	24.3	22.1	22.3	22.5	26
28	43.6	42.8	42.8	41.5	18.9	20.9	17.0	20.4	16.1	19.4	15.8	18.0	15.9	16.1	16.2	28
30	26.5	26.0	26.0	25.1	13.7	15.6	11.7	15.1	10.9	14.1	10.6	12.7	10.6	10.8	11.0	30
32	15.6	15.2	15.2	14.9	9.2	11.1	7.2	10.6	6.4	9.6	6.1	8.3	6.2	6.4	6.6	32
34	12.3	12.0	12.0	11.6	5.9	7.2		6.7		5.8						34
36	10.8	10.5	10.5	10.2												36
38	9.4	9.2	9.2	8.8												38
t	240t	240t	240t	240t	240t	240t	240t	240t	150t	150t	150t	150t	150t	150t	150t	t
n	10	10	10	10	10	10	10	9	9	8	8	6	6	6	6	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

6-1-3 On fully extended outriggers, with wind power jib of 27.5m



	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
8	168.4	170.5														8
9	165.8	169.9	171.5	176.2												9
10	165.8	165.8	171.5	176.2	178.4	178.4	178.4	178.4	178.4							10
12	161.7	161.7	167.3	171.9	178.4	178.4	178.4	178.4	178.4	178.4	178.4	170.0	170.0	164.7	159.4	12
14	153.3	155.9	161.3	165.7	172.0	172.9	171.0	172.0	170.1	170.1	168.2	169.1	167.2	155.7	144.2	14
16	143.5	147.7	152.8	152.1	153.9	154.9	153.0	153.9	151.1	153.0	150.1	151.1	150.1	139.7	129.2	16
18	141.0	139.9	139.1	136.6	138.2	139.7	136.8	138.7	135.9	137.8	135.9	135.9	134.9	124.8	114.7	18
20	127.5	125.8	125.0	123.3	124.0	125.4	122.6	124.5	121.6	123.5	120.7	121.6	119.7	110.7	101.7	20
22	114.3	112.6	111.8	109.4	110.7	112.1	109.3	111.2	108.3	110.2	107.4	109.3	107.4	95.2	92.5	22
24	102.1	100.5	100.5	98.1	99.3	100.7	97.9	100.7	96.9	98.8	96.0	97.9	96.0	89.0	87.9	24
26	92.0	91.2	91.2	89.7	86.3	88.2	85.9	88.2	85.1	87.4	85.1	86.6	85.9	74.0	85.9	26
28	83.6	82.1	82.8	81.3	77.6	79.8	77.5	79.8	76.8	79.0	76.8	78.3	77.5	66.8	77.5	28
30	76.0	75.2	75.2	73.7	70.6	73.0	69.9	72.2	69.9	72.2	69.9	71.4	69.9	60.6	70.7	30
32	69.9	68.4	69.2	67.6	63.7	66.1	63.8	66.1	63.1	65.4	63.1	64.6	63.8	55.0	63.8	32
34	63.8	63.1	63.1	61.6	58.3	60.8	57.8	60.8	57.8	60.0	57.8	59.3	57.8	50.1	58.5	34
36	58.5	57.8	58.5	56.2	52.9	55.5	52.4	55.5	52.4	54.7	52.4	54.0	52.4	45.5	53.2	36
38	54.0	53.2	54.0	52.4	48.3	50.9	48.6	50.9	47.9	50.2	47.9	49.4	47.9	41.6	48.6	38
40	50.2	49.4	49.4	47.9	44.3	47.1	44.1	47.1	44.1	46.4	44.1	45.6	44.1	38.3	44.8	40
42	42.7	42.0	42.0	40.6	37.2	39.9	36.6	39.9	36.2	39.2	36.3	38.5	36.6	31.8	37.2	42
44	41.6	40.2	40.9	39.1	34.8	37.7	33.9	37.5	33.5	36.9	33.6	35.9	34.0	29.5	34.6	44
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	t
n	11	11	11	11	11	11	11	11	11	11	11	10	10	10	10	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	41.1m~86.5m				195t		13m×13m			27.5m		360°			m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
46	37.6	36.4	37.0	34.8	30.4	33.4	29.7	33.2	29.3	32.6	29.4	31.7	29.7	25.9	30.3	46
48	33.1	32.0	32.6	30.5	26.2	29.1	25.6	29.0	25.2	28.4	25.3	27.5	25.6	22.3	26.2	48
50	30.0	28.9	29.5	27.4	23.0	26.1	22.5	25.9	22.2	25.4	22.2	24.5	22.6	19.7	23.2	50
52	27.2	26.1	26.7	24.6	20.1	23.3	19.8	23.2	19.4	22.6	19.5	21.7	19.9	17.4	20.5	52
54	22.8	21.8	22.4	20.5	16.1	19.3	16.0	19.2	15.7	18.6	15.8	17.8	16.1	14.1	16.7	54
56	20.5	19.6	20.2	18.3	13.6	17.1	13.8	17.0	13.5	16.5	13.6	15.7	14.0	12.3	14.5	56
58	18.4	17.5	18.1	16.3	12.0	15.1	11.8	15.0	11.5	14.5	11.6	13.7	12.0	10.5	12.5	58
60	16.4	15.5	16.2	14.4	10.5	13.2	10.0	13.1	9.7	12.6	9.8	11.8	10.1	9.0	10.7	60
62		13.7	14.4	12.6	9.1	11.4		11.4		10.9		10.1				62
64		12.0	12.8	11.0		9.8		9.7		9.3						64
66		10.4	11.2	9.4												66
68			9.7													68
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	t
n	11	11	11	11	11	11	11	11	11	11	11	10	10	10	10	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	41.1m~86.5m				175t		13m×13m				27.5m		360°			m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
8	168.4	170.5														8
9	165.8	169.9	171.5	176.2												9
10	157.5	165.8	163.0	167.4	178.4	178.4	178.4	178.4	178.4							10
12	153.7	153.7	159.0	163.3	178.4	178.4	178.4	178.4	178.4	178.4	178.4	170.0	170.0	164.7	159.4	12
14	145.7	148.1	153.2	157.4	170.1	171.0	169.1	170.1	167.2	168.2	166.3	167.2	165.3	154.8	144.2	14
16	136.3	140.3	145.1	144.5	152.0	153.0	151.1	152.0	150.1	151.1	149.2	149.2	148.2	138.7	129.2	16
18	133.9	132.9	132.1	129.7	134.4	135.9	133.0	134.9	131.1	133.0	130.2	131.1	130.2	122.4	114.7	18
20	121.1	119.5	118.8	117.2	118.8	120.7	116.9	119.7	115.9	117.8	115.0	116.9	115.0	108.3	101.7	20
22	108.5	107.0	106.2	103.9	105.9	107.4	104.5	106.4	103.6	105.5	102.6	103.6	102.6	92.8	83.0	22
24	97.0	95.5	95.5	93.2	94.4	96.0	92.9	96.0	92.2	95.0	92.2	93.1	91.2	85.9	82.5	24
26	88.9	87.4	88.2	85.9	83.3	85.1	82.1	85.1	82.1	84.4	82.1	83.6	82.1	70.1	82.0	26
28	80.6	79.0	79.8	78.3	74.6	76.8	74.5	76.8	73.7	76.0	73.7	75.2	74.5	63.3	74.5	28
30	73.0	72.2	73.0	70.7	67.7	69.9	66.9	69.9	66.9	69.2	66.9	68.4	66.9	57.2	67.6	30
32	66.9	66.1	66.1	64.6	61.5	63.8	60.8	63.8	60.8	63.1	60.8	62.3	60.8	52.0	61.6	32
34	61.6	60.8	60.8	59.3	55.4	57.8	56.2	57.8	56.2	57.8	56.2	57.0	56.2	47.8	56.2	34
36	56.2	56.2	56.2	56.2	52.3	54.8	50.9	54.7	50.4	54.0	50.4	52.9	50.8	43.5	51.4	36
38	53.7	52.3	52.9	50.5	46.4	48.9	45.0	48.7	44.5	48.1	44.5	47.0	44.9	38.5	45.5	38
40	48.4	47.0	47.6	45.2	41.1	43.7	39.7	43.5	39.3	42.8	39.3	41.8	39.7	34.0	40.3	40
42	40.2	38.9	39.5	37.3	33.5	35.9	32.3	35.8	31.9	35.2	32.0	34.2	32.3	27.7	32.9	42
44	37.8	36.5	37.1	34.9	30.9	33.4	29.7	33.3	29.3	32.7	29.4	31.7	29.7	25.5	30.3	44
46	33.6	32.4	33.0	30.8	26.8	29.4	25.7	29.3	25.3	28.7	25.4	27.7	25.8	22.2	26.4	46
48	29.5	28.3	28.9	26.8	22.9	25.4	21.9	25.3	21.5	24.7	21.6	23.8	21.9	21.0	22.5	48
50	26.5	25.4	26.0	23.9	19.9	22.6	19.0	22.4	18.6	21.9	18.7	20.9	19.1	19.3	19.6	50
52	23.8	22.7	23.3	21.2	17.1	19.9	16.3	19.8	15.9	19.2	16.0	18.3	16.4	16.7	17.0	52
54	19.8	18.8	19.4	17.4	13.5	16.2	12.9	16.1	12.5	15.6	12.6	14.7	13.0	13.3	13.5	54
56	17.6	16.6	17.2	15.3	11.2	14.1	10.8	14.0	10.5	13.5	10.6	12.6	10.9	11.2	11.5	56
58	15.5	14.6	15.2	13.4	9.7	12.1		12.1		11.6		10.7	9.0	9.3	9.6	58
60	13.6	12.7	13.4	11.5		10.3		10.3		9.8						60
62		11.0	11.7	9.9												62
64		9.4	10.1													64
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	t
n	11	11	11	11	11	11	11	11	11	11	11	10	10	10	10	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	41.1m~86.5m				155t		13m×13m			27.5m		360°			m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
8	168.4	170.5														8
9	165.8	169.9	171.5	176.2												9
10	154.4	162.5	159.7	164.1	178.4	178.4	178.4	178.4	178.4							10
12	150.6	150.6	155.8	160.0	178.4	178.4	178.4	178.4	178.4	178.4	178.4	170.0	170.0	164.7	159.4	12
14	142.8	145.1	150.1	154.2	168.2	169.1	167.2	168.2	165.3	166.3	164.4	164.4	163.4	153.8	144.2	14
16	133.6	137.5	142.2	141.6	146.8	148.2	145.4	147.3	143.5	145.4	142.5	143.5	141.6	135.4	129.2	16
18	131.3	130.2	129.5	127.1	128.7	130.2	127.3	129.2	126.4	127.3	125.4	126.4	124.5	119.6	114.7	18
20	118.7	117.1	116.4	114.8	113.5	115.0	112.1	114.0	111.2	113.1	110.2	111.2	110.2	106.0	101.7	20
22	106.4	104.9	104.1	101.8	101.2	102.6	99.8	101.7	98.8	100.7	97.9	99.8	97.9	90.4	83.0	22
24	95.1	93.6	93.6	91.3	85.9	88.2	83.6	88.0	83.0	87.1	83.0	85.8	83.4	78.8	73.6	24
26	85.9	84.4	84.4	82.9	76.3	78.1	74.5	78.1	75.2	77.4	75.2	76.6	74.5	67.7	71.0	26
28	73.7	72.3	73.0	71.6	68.2	70.1	68.0	70.1	67.3	69.4	67.3	68.7	68.0	61.2	68.0	28
30	66.5	65.8	67.2	64.4	61.6	63.7	60.8	64.3	60.8	62.9	60.8	62.2	60.8	55.0	61.5	30
32	60.8	60.7	60.1	58.6	56.4	58.6	55.0	58.6	55.7	57.8	55.7	57.1	55.0	50.1	56.4	32
34	56.4	55.7	55.7	54.2	50.0	52.1	52.0	52.1	52.0	52.8	52.0	52.1	52.0	46.5	51.3	34
36	51.3	52.0	51.3	53.4	49.1	51.5	46.9	51.1	46.0	50.6	46.1	49.3	46.8	42.3	47.2	36
38	50.7	48.8	49.2	46.1	42.3	44.6	39.5	44.3	39.3	43.7	39.4	42.5	40.0	36.3	40.5	38
40	44.3	42.4	43.5	40.5	36.2	38.4	34.0	38.1	33.3	37.6	33.4	36.4	34.0	30.8	34.5	40
42	35.9	34.3	35.2	32.6	28.6	30.7	27.1	30.4	26.7	30.0	26.8	28.9	27.1	24.6	27.7	42
44	32.6	31.5	32.0	29.5	26.0	28.2	24.7	28.0	24.3	27.5	24.4	26.5	24.7	22.5	25.3	44
46	28.6	27.4	28.0	25.9	22.5	24.6	21.2	24.5	20.8	23.9	20.9	23.0	21.2	19.4	21.8	46
48	24.9	23.8	24.4	22.4	19.0	21.1	17.8	21.0	17.5	20.5	17.5	19.6	17.9	16.3	18.4	48
50	22.3	21.2	21.8	19.8	16.4	18.5	15.2	18.4	14.8	17.9	14.9	17.0	15.2	14.0	15.8	50
52	19.8	18.8	19.4	17.4	13.9	16.1	12.8	16.0	12.4	15.5	12.5	14.6	12.9	11.8	13.4	52
54	16.3	15.3	15.9	14.1	10.8	12.9	9.8	12.8	9.5	12.3	9.6	11.5	9.9	9.2	10.4	54
56	14.3	13.4	14.0	12.2		11.0		10.9		10.5		9.7				56
58	12.5	11.6	12.2	10.4		9.3		9.2								58
60	10.7	9.9	10.5													60
62			9.0													62
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	t
n	11	11	11	11	11	11	11	11	11	11	11	10	10	10	10	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	41.1m~86.5m				135t		13m×13m				27.5m		360°			m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
8	166.7	168.8	152.8	157.0	118.7	118.7	118.7	118.7	118.7	83.1	83.1	40.8	40.8	39.5		8
9	164.2	168.2	169.8	174.5	169.5	169.5	169.5	169.5	169.5	118.7	118.7	129.2	129.2	125.2	25.5	9
10	151.3	159.3	156.5	160.8	178.4	178.4	178.4	178.4	178.4	169.5	169.5	161.5	161.5	156.5	95.6	10
12	147.6	147.6	152.7	156.8	178.4	178.4	178.4	178.4	178.4	178.4	178.4	170.0	170.0	164.7	159.4	12
14	139.9	142.2	147.1	151.1	162.9	164.4	161.5	162.5	159.6	160.6	157.7	158.7	156.8	150.5	144.2	14
16	130.9	134.7	139.4	138.8	141.1	142.5	139.7	140.6	137.8	139.7	136.8	137.8	135.9	132.5	129.2	16
18	128.6	127.6	126.9	124.6	123.0	124.5	121.6	123.5	120.7	122.6	119.7	120.7	118.8	116.7	114.7	18
20	116.3	114.8	114.1	112.5	108.8	110.2	107.4	109.3	106.4	108.3	105.5	106.4	105.5	103.6	101.7	20
22	104.2	102.8	102.0	99.8	91.8	94.2	89.5	93.9	88.8	93.0	88.8	91.7	89.2	86.1	83.0	22
24	93.2	91.7	91.7	89.5	76.6	78.9	74.3	78.7	73.7	77.8	73.7	76.6	74.1	71.5	68.9	24
26	84.2	82.7	82.7	81.2	64.5	66.7	62.2	66.5	61.6	65.7	61.6	64.4	62.0	59.7	57.3	26
28	69.2	67.9	67.9	65.9	54.5	56.7	52.3	56.5	51.7	55.7	51.7	54.5	52.1	50.3	48.5	28
30	54.8	53.7	53.7	52.5	46.2	48.4	44.0	48.2	43.4	47.4	43.5	46.2	43.8	42.4	40.9	30
32	47.9	46.8	46.8	45.7	39.1	41.3	36.9	41.1	36.4	40.3	36.4	39.1	36.8	37.2	37.5	32
34	41.9	40.9	41.4	39.8	33.1	35.2	30.9	35.0	30.4	34.3	30.4	33.1	30.8	31.2	31.5	34
36	36.8	35.8	35.8	34.8	27.8	30.0	25.7	29.8	25.2	29.0	25.2	27.9	25.6	25.9	26.3	36
38	31.7	31.2	31.2	29.8	23.2	25.3	21.1	25.1	20.6	24.4	20.6	23.3	21.0	21.4	21.7	38
40	27.7	26.8	27.3	26.0	19.1	21.2	17.0	21.1	16.5	20.3	16.6	19.2	17.0	17.3	17.7	40
42	24.2	23.7	23.7	22.9	15.5	17.6	13.4	17.4	12.9	16.7	13.0	15.6	13.4	13.7	14.1	42
44	16.3	16.0	16.0	15.4	12.2	14.3	10.1	14.2	9.7	13.5	9.7	12.4	10.2	10.5	10.8	44
46	14.0	13.7	13.7	13.2	9.3	11.4	7.2	11.2	6.8	10.6	6.8	9.4	7.3	7.6	7.9	46
48	11.7	11.4	11.4	10.9	7.5	8.7		8.6		7.9		6.8			5.3	48
50	10.3	9.9	10.1	9.4	5.4	6.3		6.2		5.5						50
52	8.3	8.0	8.2	7.5												52
54	6.8	6.5	6.7	6.1												54
56	5.3	5.0	5.2	4.7												56
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	t
n	11	11	11	11	11	11	11	11	11	11	11	10	10	10	10	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	41.1m~86.5m				115t		13m×13m			27.5m		360°			m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
8	165.0	167.1														8
9	162.5	166.5	168.1	172.7												9
10	148.3	156.1	153.4	157.6	178.4	178.4	178.4	178.4	178.4							10
12	144.6	144.6	149.6	153.7	178.4	178.4	178.4	178.4	178.4	178.4	177.7	170.0	170.0	156.3	142.6	12
14	137.1	139.4	144.2	148.1	156.3	157.7	154.9	155.8	153.0	153.9	151.1	152.0	150.1	147.2	144.2	14
16	128.3	132.0	136.6	136.0	134.4	135.9	133.0	134.9	132.1	134.0	131.1	132.1	130.2	129.7	129.2	16
18	126.1	125.1	124.3	122.1	117.8	119.7	115.9	117.8	115.0	116.9	114.0	115.0	114.0	113.5	113.1	18
20	114.0	112.5	111.8	110.3	99.4	101.8	96.9	101.5	96.3	100.6	96.3	99.2	96.7	97.0	97.4	20
22	102.2	100.7	100.0	97.8	81.4	83.7	79.0	83.4	78.4	82.6	78.4	81.3	78.8	79.1	79.5	22
24	91.3	89.9	89.9	87.7	67.3	69.7	65.0	69.4	64.4	68.5	64.4	67.3	64.8	65.2	65.5	24
26	82.5	81.0	81.0	79.6	56.1	58.4	53.8	58.1	53.3	57.3	53.3	56.0	53.7	54.0	54.4	26
28	67.8	66.5	66.5	64.6	46.9	49.1	44.7	48.9	44.1	48.1	44.1	46.9	44.5	44.9	45.2	28
30	49.4	48.3	48.3	47.3	39.2	41.4	37.0	41.2	36.5	40.4	36.5	39.2	36.9	37.2	37.6	30
32	43.1	42.1	42.1	41.2	32.7	34.9	30.5	34.6	30.0	33.9	30.0	32.7	30.4	30.7	31.1	32
34	37.7	36.8	37.3	35.9	27.1	29.3	24.9	29.0	24.4	28.3	24.4	27.1	24.8	25.2	25.5	34
36	33.1	32.2	32.2	31.3	22.2	24.4	20.1	24.2	19.6	23.4	19.6	22.3	20.0	20.4	20.7	36
38	28.5	28.1	28.1	26.8	18.0	20.1	15.8	19.9	15.3	19.2	15.4	18.0	15.8	16.1	16.5	38
40	24.9	24.2	24.5	23.4	14.2	16.3	12.1	16.1	11.6	15.4	11.7	14.3	12.1	12.4	12.7	40
42	21.7	21.4	21.4	20.6	10.8	13.0	8.7	12.8	8.3	12.1	8.3	11.0	8.7	9.1	9.4	42
44	11.4	11.2	11.2	10.8	7.8	9.9	5.7	9.8	5.3	9.1	5.3	8.0	5.8	6.1	6.4	44
46	9.8	9.6	9.6	9.2	6.5	7.2		7.1		6.4		5.3				46
48	8.2	8.0	8.0	7.7												48
50	7.2	6.9	7.1	6.6												50
52	5.8	5.6	5.7	5.3												52
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	150t	t
n	11	11	11	11	11	11	11	11	11	11	11	11	11	10	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	41.1m~86.5m				95t		13m×13m				27.5m	360°			m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
8	163.4	165.5														8
9	160.9	164.8	166.4	171.0												9
10	145.3	153.0	150.3	154.4	178.4	178.4	178.4	178.4	178.4							10
12	141.7	141.7	146.6	150.6	175.3	176.7	173.9	174.8	172.0	172.0	170.1	170.0	168.2	155.4	142.6	12
14	134.4	136.6	141.3	145.2	148.7	150.1	147.3	149.2	146.3	147.3	144.4	145.4	143.5	143.5	143.5	14
16	125.7	129.4	133.9	133.3	128.7	130.2	127.3	129.2	126.4	127.3	125.4	125.4	124.5	124.0	123.5	16
18	123.5	122.6	121.8	119.7	109.4	111.9	106.8	111.5	106.2	110.6	106.1	109.2	106.5	106.9	107.3	18
20	111.7	110.3	109.5	108.1	87.4	89.8	85.0	89.5	84.3	88.6	84.3	87.3	84.7	85.1	85.4	20
22	100.1	98.7	98.0	95.8	70.9	73.3	68.6	73.0	67.9	72.1	67.9	70.8	68.3	68.7	69.0	22
24	89.5	88.1	88.1	86.0	58.0	60.4	55.7	60.1	55.1	59.3	55.1	58.0	55.5	55.9	56.2	24
26	80.8	79.4	79.4	78.0	47.7	50.0	45.5	49.8	44.9	48.9	44.9	47.7	45.3	45.6	46.0	26
28	66.5	65.2	65.2	63.3	39.3	41.5	37.1	41.3	36.5	40.5	36.5	39.3	36.9	37.2	37.6	28
30	44.4	43.5	43.5	42.5	32.2	34.4	30.0	34.2	29.5	33.4	29.5	32.2	29.9	30.2	30.6	30
32	38.8	37.9	37.9	37.0	26.3	28.4	24.1	28.2	23.5	27.5	23.6	26.3	24.0	24.3	24.6	32
34	34.0	33.1	33.5	32.3	21.1	23.3	19.0	23.1	18.4	22.3	18.5	21.1	18.9	19.2	19.5	34
36	26.5	25.8	25.8	25.0	16.7	18.8	14.5	18.6	14.0	17.9	14.0	16.7	14.4	14.8	15.1	36
38	22.8	22.5	22.5	21.5	12.7	14.9	10.6	14.7	10.1	14.0	10.2	12.8	10.6	10.9	11.2	38
40	17.5	16.9	17.2	16.4	9.3	11.4	7.2	11.2	6.7	10.5	6.7	9.4	7.1	7.5	7.8	40
42	14.1	13.9	13.9	13.4	7.2	8.3		8.1		7.4		6.3				42
44	9.1	8.9	8.9	8.6		5.5		5.4								44
46	6.9	6.7	6.7	6.5												46
48	5.7	5.6	5.6	5.4												48
50	5.0		5.0													50
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	150t	t
n	10	11	11	11	11	11	11	11	11	11	11	11	11	10	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	41.1m~86.5m				75t		13m×13m			27.5m		360°			m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
8	161.8	163.8														8
9	159.3	163.2	164.8	169.3												9
10	142.4	149.9	147.3	151.3	178.4	178.4	178.4	178.4	178.4							10
12	138.9	138.9	143.7	147.6	167.7	169.1	166.3	167.2	164.4	164.4	162.5	162.5	161.5	152.1	142.6	12
14	131.7	133.9	138.5	142.3	142.0	143.5	140.6	142.5	139.7	140.6	137.8	138.7	136.8	136.8	136.8	14
16	123.2	126.8	131.2	130.6	122.6	124.5	120.7	122.6	119.7	121.6	118.8	119.7	118.8	118.3	117.8	16
18	121.1	120.1	119.4	117.3	95.4	97.9	92.9	97.6	92.2	96.7	92.2	95.2	92.6	92.9	93.3	18
20	109.5	108.1	107.3	105.9	75.5	77.9	73.0	77.6	72.4	76.7	72.4	75.3	72.8	73.1	73.5	20
22	98.1	96.7	96.0	93.9	60.5	62.8	58.1	62.5	57.5	61.7	57.5	60.3	57.9	58.2	58.6	22
24	87.7	86.3	86.3	84.2	48.8	51.1	46.4	50.8	45.9	50.0	45.9	48.7	46.2	46.6	46.9	24
26	79.2	77.8	77.8	76.4	39.4	41.6	37.1	41.4	36.5	40.6	36.5	39.3	36.9	37.3	37.6	26
28	65.1	63.9	63.9	62.0	31.7	33.9	29.5	33.7	28.9	32.9	28.9	31.6	29.3	29.6	30.0	28
30	40.0	39.1	39.1	38.3	25.3	27.5	23.1	27.2	22.5	26.5	22.5	25.2	22.9	23.3	23.6	30
32	34.9	34.1	34.1	33.3	19.8	22.0	17.6	21.8	17.1	21.0	17.1	19.8	17.5	17.9	18.2	32
34	30.6	29.8	30.2	29.0	15.1	17.3	13.0	17.1	12.5	16.3	12.5	15.2	12.9	13.2	13.6	34
36	21.2	20.6	20.6	20.0	11.1	13.2	8.9	13.0	8.4	12.3	8.5	11.1	8.9	9.2	9.5	36
38	18.3	18.0	18.0	17.2	7.5	9.6	5.4	9.5		8.7		7.6	5.3	5.7	6.0	38
40	12.2	11.8	12.0	11.4	5.2	6.5		6.3		5.6						40
42	9.2	9.0	9.0	8.7												42
44	7.3	7.2	7.2	6.9												44
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	150t	t
n	10	10	10	11	11	11	11	11	11	10	10	10	10	10	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	41.1m~86.5m				55t			13m×13m			27.5m		360°			m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
8	160.1	162.2														8
9	157.7	161.6	163.1	167.6												9
10	139.5	146.9	144.4	148.3	169.0	169.0	169.0	173.5	173.5							10
12	136.1	136.1	140.8	144.7	151.7	153.0	150.3	151.2	148.5	149.4	147.6	147.6	145.8	144.2	142.6	12
14	129.0	131.2	135.7	139.4	129.2	130.5	127.8	128.7	126.0	127.8	125.1	126.0	124.2	123.8	123.3	14
16	120.8	124.3	128.6	128.0	111.2	112.5	109.8	111.6	108.0	109.8	108.0	108.9	107.1	107.1	107.1	16
18	118.6	117.7	117.0	114.7	95.4	97.9	92.9	97.2	92.2	96.3	92.2	94.5	92.6	92.6	92.7	18
20	105.8	103.9	103.9	100.9	75.5	77.9	73.0	77.6	72.4	76.7	72.4	75.3	72.8	73.1	73.5	20
22	86.4	84.1	84.8	81.1	60.5	62.8	58.1	62.5	57.5	61.7	57.5	60.3	57.9	58.2	58.6	22
24	70.9	68.7	69.4	65.8	48.8	51.1	46.4	50.8	45.9	50.0	45.9	48.7	46.2	46.6	46.9	24
26	58.7	56.5	57.2	53.7	39.4	41.6	37.1	41.4	36.5	40.6	36.5	39.3	36.9	37.3	37.6	26
28	48.7	46.6	47.3	43.9	31.7	33.9	29.5	33.7	28.9	32.9	28.9	31.6	29.3	29.6	30.0	28
30	36.0	35.2	35.2	35.8	25.3	27.5	23.1	27.2	22.5	26.5	22.5	25.2	22.9	23.3	23.6	30
32	33.5	31.5	32.3	28.9	19.8	22.0	17.6	21.8	17.1	21.0	17.1	19.8	17.5	17.9	18.2	32
34	27.6	25.6	26.4	23.1	15.1	17.3	13.0	17.1	12.5	16.3	12.5	15.2	12.9	13.2	13.6	34
36	16.9	16.5	16.5	18.1	11.0	13.2	8.7	13.0	8.2	12.3	8.2	11.1	8.7	9.0	9.4	36
38	14.6	16.1	16.8	13.7	7.3	9.6	5.0	9.4		8.6		7.4	5.3	5.5	5.7	38
40	8.6	8.3	8.4	9.8	5.2	6.2		6.0		5.3						40
42	6.0	8.7	5.9	6.3												42
44	5.8	5.5	6.3													44
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	150t	150t	150t	150t	150t	150t	t
n	10	10	10	11	11	11	11	11	11	9	9	9	9	9	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	41.1m~86.5m				35t		13m×13m			27.5m		360°			m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
8	158.5	160.5														8
9	156.1	159.9	161.5	165.9												9
10	136.8	144.0	141.5	145.3	178.4	178.4	178.4	178.4	178.4							10
12	133.4	133.4	138.0	141.8	151.5	153.0	150.1	152.0	148.2	150.1	147.3	147.3	146.3	144.5	142.6	12
14	126.5	128.6	133.0	136.6	123.2	126.0	120.3	125.6	119.5	124.5	119.5	122.8	119.9	120.3	120.6	14
16	96.6	99.4	102.8	102.4	89.8	92.5	87.2	92.1	86.5	91.1	86.4	89.6	86.8	87.2	87.6	16
18	94.9	94.2	93.6	91.7	67.5	70.0	65.0	69.7	64.3	68.8	64.3	67.3	64.7	65.1	65.4	18
20	68.8	67.5	67.5	65.6	51.6	54.0	49.1	53.7	48.5	52.8	48.5	51.4	48.9	49.2	49.6	20
22	56.2	54.7	55.1	52.7	39.5	41.9	37.2	41.6	36.6	40.7	36.6	39.4	36.9	37.3	37.6	22
24	46.1	44.6	45.1	42.8	30.2	32.5	27.9	32.2	27.3	31.4	27.3	30.1	27.7	28.0	28.3	24
26	38.1	36.7	37.2	34.9	22.6	24.9	20.4	24.7	19.8	23.8	19.8	22.6	20.2	20.5	20.9	26
28	31.7	30.3	30.8	28.5	16.5	18.7	14.2	18.5	13.7	17.7	13.7	16.4	14.1	14.4	14.8	28
30	23.4	22.9	22.9	23.2	11.3	13.5	9.1	13.3	8.6	12.5	8.6	11.3	9.0	9.3	9.7	30
32	21.8	20.5	21.0	18.8	8.4	9.1		8.9		8.1		7.0		5.0	5.3	32
34	17.9	16.7	17.1	15.0		5.4		5.1								34
36	11.0	10.7	10.7	11.7												36
38	9.5	10.4	10.9	8.9												38
40	5.6	5.4	5.5	6.4												40
42		5.6														42
44																44
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	240t	150t	150t	150t	150t	150t	t
n	10	10	10	11	11	11	11	11	11	10	9	9	9	9	9	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	41.1m~86.5m				0t		13m×13m				27.5m	360°			m
	41.1	46.8	52.4	58.1	63.8	63.8	63.8	69.5	69.5	75.1	75.1	80.8	80.8	83.8	86.5	
8	156.9	158.9														8
9	154.6	158.3	159.9	164.3												9
10	134.0	141.1	138.6	142.4	166.7	168.2	165.3	166.3	163.4							10
12	130.7	130.7	135.2	138.9	129.7	132.8	126.5	132.4	125.6	131.1	125.5	129.3	126.0	126.4	126.8	12
14	123.9	126.0	130.3	133.9	86.6	89.4	83.7	89.0	82.9	87.9	82.9	86.2	83.3	83.7	84.0	14
16	77.3	79.5	82.3	81.9	60.5	63.2	57.9	62.8	57.2	61.8	57.1	60.3	57.5	57.9	58.3	16
18	75.9	75.3	74.9	73.4	43.1	45.6	40.6	45.3	39.9	44.4	39.9	42.9	40.3	40.7	41.0	18
20	44.7	43.9	43.9	42.6	30.6	33.1	28.2	32.8	27.6	31.9	27.6	30.5	27.9	28.3	28.7	20
22	36.5	35.5	35.8	34.2	21.2	23.6	18.9	23.3	18.3	22.4	18.3	21.1	18.6	19.0	19.3	22
24	21.0	20.3	20.5	19.5	13.9	16.2	11.6	15.9	11.0	15.1	11.0	13.8	11.4	11.7	12.1	24
26	20.5	19.3	19.7	17.8	8.0	10.3	5.7	10.0	5.2	9.2	5.2	7.9	5.6	5.9	6.2	26
28	19.4	18.0	18.5	16.2		5.4		5.2								28
30	16.0	14.6	15.1	12.7												30
32	12.1	10.7	11.2	8.9												32
34	8.8	7.4	8.0	5.7												34
36	5.9		5.1													36
t	240t	240t	240t	240t	240t	240t	240t	240t	240t	150t	150t	150t	150t	150t	150t	t
n	10	10	10	10	11	11	11	11	10	8	8	8	8	8	8	n
%	000022	000221	000222	002221	002222	111122	221111	111222	222111	112222	222211	122222	222221	333221	222222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

LOG

7 Lifting Load Tables for Boom+Super Lifting Device+Luffing Jib

7-1 Boom angle of 86°

7-1-1 On fully extended outriggers, with luffing jib of 84m

m	29m~51.7m	235t	86°	84m	V: 21m	13m×13m 360°	m
	29	34.7	40.3	46	51.7		
24	80.4	93.4					24
26	78.2	83.2	99.0	103.0			26
27	72.0	80.6	91.8	96.5	110.0		27
28	69.9	78.0	84.5	90.0	108.0		28
30	67.7	74.3	74.8	75.3	102.0		30
32	64.0	71.8	72.4	72.8	97.0		32
34	61.1	68.2	69.5	70.7	81.0		34
36	57.4	65.3	66.4	67.0	67.5		36
38	54.3	61.5	62.4	62.7	63.0		38
40	52.1	57.4	58.7	59.0	59.4		40
42	49.9	55.3	56.1	56.4	56.7		42
44	47.6	52.2	52.7	52.9	53.1		44
46	45.4	49.6	49.9	50.2	50.4		46
48	43.1	45.5	46.7	47.0	47.7		48
50	40.8	43.5	44.3	44.8	45.0		50
52	38.5	42.2	42.5	42.8	43.2		52
54	36.2	40.8	41.0	41.2	41.4		54
56	33.9	37.4	37.8	38.2	38.7		56
58	33.2	35.5	36.0	36.4	36.9		58
60	29.8	32.4	33.0	33.1	33.2		60
62	28.5	31.8	32.0	32.1	32.3		62
64	27.4	29.8	30.4	30.5	30.6		64
66	26.3	27.4	28.0	28.7	28.9		66
68	25.2	26.5	27.8	28.1	28.1		68
70	24.1	25.0	25.1	25.6	26.4		70
72	23.0	23.5	24.0	24.5	25.5		72
74	23.0	21.8	22.0	22.4	22.7		74
t	150t	150t	150t	150t	150t		t
n	5	6	5	5	7		n
%	110	111	211	221	222		%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s		m/s

m	29m~51.7m	235t	86°	84m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
76	20.8	21.3	22.0	22.5	22.8			76
78	20.8	19.4	19.8	20.5	22.1			78
80	20.4	19.2	20.5	20.6	20.7			80
82	17.6	18.1	18.5	19.0	19.8			82
84			16.2	18.4	18.5			84
86								86
88								88
90								90
92								92
t	150t	150t	150t	150t	150t			t
n	5	6	5	5	7			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

7-1-2 On fully extended outriggers, with luffing jib of 78m

m	29m~51.7m	215t	86°	78m	V：21m	13m×13m 360°	m
	29	34.7	40.3	46	51.7		
22	84.8	94.1					22
24	80.7	86.7	88.2				24
26	72.3	78.2	80.3	81.3	88.3		26
28	69.9	77.6	78.6	79.4	88.4		28
30	66.1	71.3	72.6	73.1	78.7		30
32	61.9	68.6	69.8	70.7	74.4		32
34	59.3	65.6	66.9	68.0	69.3		34
36	57.2	63.1	63.9	64.6	65.0		36
38	53.4	58.7	59.3	60.2	61.6		38
40	50.8	57.3	57.7	58.0	58.1		40
42	48.7	54.0	54.1	54.4	54.7		42
44	46.5	49.8	50.6	51.3	52.2		44
46	44.3	49.1	49.3	49.4	49.6		46
48	42.2	46.6	46.7	46.9	47.0		48
50	40.0	43.7	43.9	44.2	44.5		50
52	37.8	41.2	41.5	41.6	41.9		52
54	33.7	38.4	38.8	39.6	40.2		54
56	31.6	34.8	35.5	36.1	36.3		56
58	31.3	33.6	34.0	34.5	34.7		58
60	29.5	32.9	33.1	33.1	33.1		60
62	28.4	30.5	30.9	31.2	31.5		62
64	26.3	29.0	29.3	29.5	29.9		64
66	26.3	28.6	28.8	28.8	28.9		66
68	25.2	27.4	27.7	28.3	27.5		68
70	24.2	24.0	26.7	26.6	26.6		70
72	23.2	22.7	22.9	24.9	25.0		72
74	21.2	22.5	22.9	24.2	24.2		74
76	20.3	21.1	21.1	21.8	23.4		76
78			20.9	21.1	21.2		78
80					18.8		80
t	150t	150t	150t	150t	150t		t
n	5	6	6	5	6		n
%	110	111	211	221	222		%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s		m/s

m	29m~51.7m	235t	86°	78m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
22	89.2	99.1						22
24	84.9	91.3	111.2					24
26	76.1	82.3	84.5	95.2	110.9			26
28	73.6	81.7	82.7	83.6	93.1			28
30	69.6	75.1	76.4	77.0	82.8			30
32	65.1	72.2	73.5	74.4	78.3			32
34	62.4	69.1	70.4	71.6	72.9			34
36	60.2	66.4	67.3	68.0	68.4			36
38	56.3	61.8	62.4	63.4	64.8			38
40	53.5	60.3	60.7	61.0	61.2			40
42	51.2	56.8	56.9	57.3	57.6			42
44	49.0	52.4	53.3	54.0	54.9			44
46	46.7	51.7	51.9	52.0	52.2			46
48	44.4	49.0	49.2	49.4	49.5			48
50	42.1	46.0	46.2	46.5	46.8			50
52	39.8	43.4	43.7	43.8	44.1			52
54	35.4	40.4	40.8	41.7	42.3			54
56	33.2	36.6	37.4	38.0	38.3			56
58	33.0	35.4	35.8	36.3	36.6			58
60	31.0	34.6	34.8	34.9	34.9			60
62	29.8	32.1	32.5	32.8	33.2			62
64	27.7	30.5	30.8	31.1	31.5			64
66	27.7	30.2	30.3	30.4	30.5			66
68	26.6	28.8	29.2	29.8	28.9			68
70	25.4	25.2	28.1	28.1	28.1			70
72	24.4	23.9	24.1	26.2	26.3			72
74	22.3	23.7	24.1	25.5	25.5			74
76	21.4	22.2	22.2	22.9	24.6			76
78			22.0	22.2	22.3			78
80					19.8			80
t	150t	150t	150t	150t	150t			t
n	6	6	6	5	6			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

7-1-3 On fully extended outriggers, with luffing jib of 72m

m	29m~51.7m	195t	86°	72m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
20	89.2							20
22	85.3	89.2	89.2					22
24	76.9	82.0	83.2	84.3	89.2			24
26	73.0	79.8	81.1	82.0	84.1			26
28	69.0	72.6	73.7	75.2	78.6			28
30	65.0	71.7	72.5	73.1	73.7			30
32	61.0	68.9	70.0	69.7	68.9			32
34	58.7	63.4	64.0	64.4	64.8			34
36	54.9	59.5	59.9	60.3	60.8			36
38	52.6	56.0	56.3	56.8	57.5			38
40	48.8	53.0	53.3	53.8	54.3			40
42	46.5	49.2	49.7	50.5	51.0			42
44	44.5	47.4	48.0	48.3	48.6			44
46	42.4	45.5	46.0	46.1	46.2			46
48	40.4	42.3	42.9	43.3	43.7			48
50	36.2	38.0	38.3	38.7	39.0			50
52	34.2	36.4	36.9	37.2	37.5			52
54	34.2	34.3	34.8	35.0	35.2			54
56	32.2	32.8	33.0	33.4	33.7			56
58	30.3	31.3	31.7	32.0	32.1			58
60	29.2	29.7	29.8	30.2	30.6			60
62	27.5	27.8	28.3	29.0	29.8			62
64	27.2	27.5	27.8	28.0	28.3			64
66	25.6	26.0	26.2	26.6	26.8			66
68	23.7	24.8	25.3	25.8	26.0			68
70	22.0	22.7	23.5	24.5	24.5			70
72			21.8	23.2	23.7			72
74					22.4			74
t	150t	150t	150t	150t	150t			t
n	6	6	6	5	6			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	215t	86°	72m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
20	94.2							20
22	90.0	94.1	94.1					22
24	81.2	86.5	87.8	89.0	94.1			24
26	77.0	84.3	85.6	86.6	88.7			26
28	72.8	76.7	77.8	79.4	86.4			28
30	68.6	75.7	76.5	77.2	80.4			30
32	64.3	72.8	73.9	74.6	76.1			32
34	62.0	69.7	70.8	70.9	71.0			34
36	58.0	65.3	65.7	66.2	66.7			36
38	55.6	61.8	62.1	62.7	63.3			38
40	51.5	58.3	58.9	59.4	59.9			40
42	49.1	55.5	56.0	56.1	56.4			42
44	46.9	51.6	52.6	53.2	53.9			44
46	44.8	48.5	49.6	50.1	50.4			46
48	42.6	46.6	47.2	47.5	47.9			48
50	40.4	44.1	44.9	45.7	46.2			50
52	36.1	42.1	42.8	43.4	43.6			52
54	36.1	39.1	39.3	39.5	39.6			54
56	34.0	36.8	37.4	37.7	38.0			56
58	32.0	34.5	34.9	35.2	35.5			58
60	30.9	32.3	33.2	33.5	33.9			60
62	29.0	31.9	33.0	33.1	33.1			62
64	28.7	29.8	30.8	31.4	31.5			64
66	27.0	28.4	29.4	29.6	29.9			66
68	25.0	26.2	26.7	27.9	29.1			68
70	23.2	23.9	24.8	25.8	27.1			70
72			23.0	24.5	25.4			72
74					23.7			74
t	150t	150t	150t	150t	150t			t
n	6	6	6	6	6			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	235t	86°	72m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
20	101.1							20
22	94.8	111.4	111.6					22
24	85.5	91.1	92.4	103.3	111.4			24
26	81.1	88.7	90.1	91.1	93.4			26
28	76.7	80.7	81.9	83.5	90.9			28
30	72.2	79.7	80.5	81.2	84.6			30
32	67.7	76.6	77.8	78.6	80.1			32
34	65.2	73.4	74.5	74.6	74.7			34
36	61.0	68.7	69.2	69.7	70.2			36
38	58.5	65.0	65.4	66.0	66.6			38
40	54.2	61.4	62.0	62.5	63.0			40
42	51.7	58.4	58.9	59.0	59.4			42
44	49.4	54.3	55.4	56.0	56.7			44
46	47.1	51.1	52.2	52.7	53.1			46
48	44.8	49.0	49.7	50.0	50.4			48
50	42.6	46.4	47.3	48.1	48.6			50
52	38.0	44.3	45.1	45.7	45.9			52
54	38.0	41.2	41.4	41.6	41.7			54
56	35.8	38.7	39.4	39.7	40.0			56
58	33.7	36.3	36.7	37.0	37.4			58
60	32.5	34.0	34.9	35.3	35.7			60
62	30.5	33.6	34.7	34.8	34.9			62
64	30.2	31.4	32.4	33.0	33.2			64
66	28.4	29.9	30.9	31.2	31.5			66
68	26.3	27.6	28.1	29.4	30.6			68
70	24.4	25.2	26.1	27.2	28.6			70
72			24.2	25.8	26.7			72
74					24.9			74
t	150t	150t	150t	150t	150t			t
n	6	6	6	6	6			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

7-1-4 On fully extended outriggers, with luffing jib of 66m

m	29m~51.7m	175t	86°	66m	V: 21m	13m×13m 360°	m
	29	34.7	40.3	46	51.7		
18	88.5	93.6					18
20	80.5	88.9	89.9				20
22	77.1	79.9	81.3	83.1	89.8		22
24	73.6	78.2	79.2	79.9	83.8		24
26	70.0	71.0	72.0	73.6	78.0		26
28	64.9	70.1	70.7	71.3	72.2		28
30	61.3	68.4	68.9	68.5	67.8		30
32	57.6	62.6	63.3	64.2	63.4		32
34	54.0	59.5	60.3	60.5	59.8		34
36	50.3	55.6	56.2	56.9	56.1		36
38	48.4	52.2	53.1	53.2	52.5		38
40	46.6	50.3	51.0	50.3	49.6		40
42	42.9	48.8	48.1	48.1	47.4		42
44	38.8	44.1	43.4	42.7	44.5		44
46	37.0	39.7	40.3	40.6	39.9		46
48	35.3	37.6	38.3	38.6	37.9		48
50	33.5	35.9	36.5	36.5	36.5		50
52	32.0	33.4	34.1	34.9	34.4		52
54	31.6	32.2	33.0	33.7	33.0		54
56	29.9	30.7	31.1	31.7	31.7		56
58	27.8	28.7	29.4	30.3	30.3		58
60	26.0	27.2	28.1	28.8	28.9		60
62	24.9	25.4	26.2	26.9	27.5		62
64	23.7	24.2	25.0	25.6	26.2		64
66	22.4	22.4	23.1	23.8	25.1		66
68				22.0	24.0		68
t	150t	150t	150t	150t	150t		t
n	6	6	6	5	6		n
%	110	111	211	221	222		%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s		m/s

m	29m~51.7m	195t	86°	66m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
18	98.3	104.0						18
20	89.4	98.7	99.9					20
22	85.6	88.8	90.4	92.3	99.8			22
24	81.7	86.9	88.0	88.8	93.2			24
26	77.8	78.8	80.0	81.8	86.7			26
28	72.1	77.9	78.6	79.2	80.2			28
30	68.1	76.1	76.5	76.1	75.3			30
32	64.0	69.6	70.3	71.3	70.5			32
34	59.9	66.1	67.1	67.2	66.4			34
36	55.8	61.7	62.5	63.2	62.4			36
38	53.8	58.1	59.0	59.1	58.3			38
40	51.8	55.9	56.7	55.9	55.1			40
42	47.7	54.3	53.5	53.5	52.7			42
44	43.1	49.0	48.2	47.4	49.4			44
46	41.1	44.1	44.7	45.1	44.4			46
48	39.2	41.8	42.6	42.8	42.1			48
50	37.2	39.9	40.6	40.5	40.5			50
52	35.5	37.1	37.9	38.8	38.3			52
54	35.1	35.7	36.7	37.5	36.7			54
56	33.3	34.1	34.6	35.2	35.2			56
58	30.9	31.9	32.7	33.7	33.7			58
60	28.9	30.2	31.2	32.0	32.1			60
62	27.7	28.3	29.2	29.9	30.6			62
64	26.4	26.9	27.8	28.4	29.1			64
66	24.9	24.8	25.7	26.5	27.9			66
68				24.5	26.6			68
t	150t	150t	150t	150t	150t			t
n	6	7	6	6	6			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	215t	86°	66m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
18	103.8	109.7						18
20	99.6	104.2	105.5					20
22	90.4	93.8	95.4	97.4	105.4			22
24	86.3	91.7	92.9	93.7	100.3			24
26	82.1	83.2	84.5	86.4	93.2			26
28	76.1	82.3	82.9	83.6	88.1			28
30	71.9	80.3	80.8	81.3	82.1			30
32	67.6	73.4	74.2	75.5	77.0			32
34	63.3	69.7	70.8	72.1	72.7			34
36	58.9	65.2	65.9	67.3	68.4			36
38	56.8	61.3	62.3	64.5	65.0			38
40	54.7	59.0	60.2	60.5	60.7			40
42	50.3	57.3	57.7	57.8	58.1			42
44	48.2	53.0	53.2	53.6	54.7			44
46	45.9	46.6	47.2	48.3	49.0			46
48	41.4	44.1	44.9	45.7	47.9			48
50	39.3	42.1	42.8	43.9	44.4			50
52	37.5	39.1	40.0	40.9	41.9			52
54	37.1	37.7	38.8	40.3	40.4			54
56	35.1	36.0	36.5	38.3	38.8			56
58	32.6	33.6	34.5	36.5	37.1			58
60	30.5	31.9	33.0	33.7	35.5			60
62	29.3	29.8	30.8	31.5	32.9			62
64	27.8	28.4	29.4	30.0	30.8			64
66	26.3	26.2	27.1	27.9	29.5			66
68				25.8	28.1			68
t	150t	150t	150t	150t	150t			t
n	7	7	7	6	7			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	235t	86°	66m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
18	110.3	120.8						18
20	104.9	109.7	120.2					20
22	95.2	98.7	105.3	113.2	120.0			22
24	90.8	96.5	97.8	101.6	105.6			24
26	86.4	87.6	88.9	90.9	98.1			26
28	80.1	86.6	87.3	88.0	92.7			28
30	75.6	84.5	85.0	85.6	86.4			30
32	71.1	77.3	78.1	79.5	81.0			32
34	66.6	73.4	74.5	75.9	76.5			34
36	62.0	68.6	69.4	70.8	72.0			36
38	59.8	64.5	65.6	67.9	68.4			38
40	57.5	62.1	63.4	63.7	63.9			40
42	53.0	60.3	60.7	60.8	61.2			42
44	50.7	55.8	56.0	56.4	57.6			44
46	48.3	49.0	49.7	50.8	51.5			46
48	43.5	46.4	47.3	48.1	50.4			48
50	41.4	44.3	45.1	46.2	46.8			50
52	39.5	41.2	42.1	43.1	44.1			52
54	39.0	39.7	40.8	42.4	42.5			54
56	37.0	37.9	38.4	40.3	40.8			56
58	34.3	35.4	36.3	38.4	39.1			58
60	32.1	33.6	34.7	35.5	37.4			60
62	30.8	31.4	32.4	33.2	34.6			62
64	29.3	29.9	30.9	31.6	32.4			64
66	27.7	27.6	28.5	29.4	31.0			66
68				27.2	29.6			68
t	150t	150t	150t	150t	150t			t
n	7	7	7	6	7			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

7-1-5 On fully extended outriggers, with luffing jib of 60m

m	29m~51.7m	155t	86°	60m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
18	91.1	99.0	99.7					18
20	79.3	80.0	80.9	81.8				20
22	77.1	77.5	78.4	79.2	81.8			22
24	70.5	71.3	71.9	72.2	76.8			24
26	68.3	68.7	69.2	69.7	71.5			26
28	63.5	64.5	65.4	65.6	66.3			28
30	59.9	61.6	62.0	62.2	62.3			30
32	55.6	57.0	58.1	58.3	58.4			32
34	52.3	52.2	53.2	53.7	54.5			34
36	48.9	49.2	50.1	51.1	51.8			36
38	46.1	47.0	47.8	48.1	48.6			38
40	43.9	43.8	44.9	45.4	45.9			40
42	38.8	42.8	43.3	43.7	44.0			42
44	37.2	38.4	39.3	39.7	41.3			44
46	35.2	35.7	36.2	37.0	37.2			46
48	33.0	33.8	34.5	35.1	35.3			48
50	31.1	32.3	32.9	33.2	33.5			50
52	29.5	30.0	30.7	31.4	32.1			52
54	28.4	28.9	29.7	30.9	31.0			54
56	27.4	27.6	28.0	28.8	29.1			56
58	25.0	25.8	26.5	27.5	27.9			58
60		24.5	25.3	25.9	27.3			60
62					25.2			62
64								64
66								66
68								68
t	150t	150t	150t	150t	150t			t
n	6	6	6	5	5			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	175t	86°	60m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
18	101.2	110.0	110.8					18
20	88.1	88.9	89.9	90.9				20
22	85.6	86.1	87.1	88.0	90.9			22
24	78.3	79.2	79.9	80.3	85.3			24
26	75.8	76.4	76.9	77.4	79.5			26
28	70.5	71.6	72.6	72.9	73.6			28
30	66.6	68.4	68.9	69.1	69.3			30
32	61.7	63.4	64.5	64.8	64.9			32
34	58.1	58.0	59.1	59.7	60.5			34
36	54.4	54.7	55.6	56.8	57.6			36
38	51.2	52.2	53.1	53.5	53.9			38
40	48.7	48.7	49.9	50.4	51.0			40
42	43.1	47.5	48.1	48.6	48.8			42
44	41.3	42.7	43.7	44.1	45.9			44
46	39.1	39.7	40.3	41.1	41.3			46
48	36.6	37.6	38.3	39.0	39.2			48
50	34.6	35.9	36.5	36.9	37.2			50
52	32.7	33.4	34.1	34.9	35.7			52
54	31.6	32.2	33.0	34.3	34.4			54
56	30.5	30.7	31.1	32.0	32.4			56
58	27.8	28.7	29.4	30.5	31.0			58
60		27.2	28.1	28.8	30.3			60
62					28.0			62
64								64
66								66
68								68
t	150t	150t	150t	150t	150t			t
n	6	7	7	6	6			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	195t	86°	60m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
18	112.4	122.2	123.1					18
20	97.9	98.7	99.9	101.0				20
22	95.1	95.7	96.8	97.8	101.0			22
24	87.0	88.0	88.7	89.2	94.8			24
26	84.3	84.9	85.4	86.0	88.3			26
28	78.4	79.6	80.7	81.0	81.8			28
30	73.9	76.1	76.5	76.8	77.0			30
32	68.6	70.4	71.7	72.0	72.1			32
34	64.5	64.4	65.7	66.3	67.2			34
36	60.4	60.8	61.8	63.1	64.0			36
38	56.9	58.1	59.0	59.4	59.9			38
40	54.2	54.1	55.4	56.0	56.7			40
42	47.9	52.8	53.4	54.0	54.3			42
44	45.9	47.4	48.5	49.0	51.0			44
46	43.5	44.1	44.7	45.7	45.9			46
48	40.7	41.8	42.6	43.3	43.6			48
50	38.4	39.9	40.6	41.0	41.3			50
52	36.4	37.1	37.9	38.8	39.7			52
54	35.1	35.7	36.7	38.2	38.3			54
56	33.8	34.1	34.6	35.6	36.0			56
58	30.9	31.9	32.7	33.9	34.4			58
60		30.2	31.2	32.0	33.7			60
62					31.1			62
64								64
66								66
68								68
t	150t	150t	150t	150t	150t			t
n	7	8	8	6	6			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	215t	86°	60m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
18	118.7	123.3	123.4					18
20	103.4	104.2	105.5	106.6				20
22	100.4	101.0	102.1	103.2	106.6			22
24	91.9	92.9	93.7	94.1	100.3			24
26	89.0	89.6	90.2	90.8	94.9			26
28	82.7	85.2	86.8	87.9	89.8			28
30	78.1	80.3	82.4	83.2	84.6			30
32	72.4	76.8	77.3	78.1	78.7			32
34	68.1	71.5	73.1	73.5	74.4			34
36	63.8	67.8	68.6	69.4	70.1			36
38	60.0	61.3	62.3	64.5	65.8			38
40	57.2	60.2	61.2	61.8	62.4			40
42	50.6	57.3	58.1	58.8	59.0			42
44	48.5	53.0	54.9	55.5	56.4			44
46	45.9	46.6	47.2	48.3	49.0			46
48	42.9	44.1	44.9	45.7	47.9			48
50	40.6	42.1	42.8	43.9	45.9			50
52	38.4	39.1	40.0	40.9	41.9			52
54	37.1	37.7	38.8	40.3	41.3			54
56	35.7	36.0	36.5	38.3	39.7			56
58	32.6	33.6	34.5	36.5	38.2			58
60		31.9	33.0	33.7	35.5			60
62					32.9			62
64								64
66								66
68								68
t	150t	150t	150t	150t	150t			t
n	7	8	8	7	7			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	235t	86°	60m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
18	124.9	129.8	129.9					18
20	108.8	109.7	111.0	122.2				20
22	105.7	106.3	107.5	108.7	122.2			22
24	96.7	97.8	98.6	99.1	105.6			24
26	93.6	94.3	94.9	95.6	99.9			26
28	87.1	89.7	91.4	92.5	94.5			28
30	82.2	84.5	86.7	87.6	89.1			30
32	76.2	80.8	81.4	82.2	82.8			32
34	71.7	75.3	76.9	77.4	78.3			34
36	67.1	71.4	72.2	73.0	73.8			36
38	63.2	64.5	65.6	67.9	69.3			38
40	60.2	63.4	64.4	65.0	65.7			40
42	53.2	60.3	61.2	61.9	62.1			42
44	51.0	55.8	57.8	58.4	59.4			44
46	48.3	49.0	49.7	50.8	51.5			46
48	45.2	46.4	47.3	48.1	50.4			48
50	42.7	44.3	45.1	46.2	48.3			50
52	40.4	41.2	42.1	43.1	44.1			52
54	39.0	39.7	40.8	42.4	43.5			54
56	37.6	37.9	38.4	40.3	41.8			56
58	34.3	35.4	36.3	38.4	40.2			58
60		33.6	34.7	35.5	37.4			60
62					34.6			62
64								64
66								66
68								68
t	150t	150t	150t	150t	150t			t
n	8	8	8	7	7			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

7-1-6 On fully extended outriggers, with luffing jib of 54m

m	29m~51.7m	135t	86°	54m	V：21m	13m×13m 360°	m
	29	34.7	40.3	46	51.7		
16	87.9	89.1				16
18	80.3	80.6	80.9	80.9		18
20	71.3	75.0	76.4	77.9	80.6	20
22	66.1	68.2	70.4	70.9	78.5	22
24	61.4	67.1	68.1	68.3	70.9	24
26	57.1	63.1	63.9	64.5	65.5	26
28	53.9	59.9	60.8	61.2	61.4	28
30	50.0	54.8	56.2	56.9	57.3	30
32	47.0	51.2	52.3	53.1	53.7	32
34	44.0	47.6	48.6	49.1	50.2	34
36	41.5	44.3	44.8	45.8	47.2	36
38	39.5	40.9	42.1	42.9	44.9	38
40	34.9	38.2	39.0	39.9	40.2	40
42	33.5	36.5	37.5	37.7	37.9	42
44	31.7	32.1	32.6	33.3	33.8	44
46	29.7	30.4	31.0	31.6	33.1	46
48	28.0	29.1	29.6	30.3	31.7	48
50	26.5	27.0	27.6	28.3	28.9	50
52	25.6	26.0	26.8	27.8	28.5	52
54	24.7	24.9	25.2	26.4	27.4	54
56				25.2	26.4	56
t	150t	150t	150t	150t	150t	t
n	6	6	5	5	5	n
%	110	111	211	221	222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	29m~51.7m	155t	86°	54m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
16	97.7	99.0						16
18	89.2	89.5	89.9	89.9				18
20	79.2	83.3	84.9	86.5	89.6			20
22	73.5	75.7	78.2	78.8	87.3			22
24	68.3	74.5	75.7	75.9	78.7			24
26	63.5	70.1	71.0	71.7	72.8			26
28	59.9	66.6	67.6	68.0	68.2			28
30	55.6	60.9	62.5	63.2	63.6			30
32	52.3	56.9	58.1	59.0	59.7			32
34	48.9	52.9	54.0	54.6	55.8			34
36	46.1	49.2	49.7	50.9	52.5			36
38	43.9	45.4	46.7	47.7	49.9			38
40	38.8	42.4	43.3	44.4	44.6			40
42	37.2	40.6	41.6	41.9	42.1			42
44	35.2	35.7	36.2	37.0	37.6			44
46	33.0	33.8	34.5	35.1	36.8			46
48	31.1	32.3	32.9	33.7	35.2			48
50	29.5	30.0	30.7	31.4	32.1			50
52	28.4	28.9	29.7	30.9	31.7			52
54	27.4	27.6	28.0	29.4	30.5			54
56				28.0	29.3			56
t	150t	150t	150t	150t	150t			t
n	6	6	6	6	6			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	175t	86°	54m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
16	108.6	110.0						16
18	99.1	99.5	99.8	99.8				18
20	88.0	92.6	94.4	96.2	99.5			20
22	81.7	84.2	86.9	87.6	97.0			22
24	75.8	82.8	84.1	84.3	87.5			24
26	70.5	77.9	78.9	79.7	80.9			26
28	66.6	74.0	75.1	75.5	75.8			28
30	61.7	67.7	69.4	70.2	70.7			30
32	58.1	63.2	64.5	65.6	66.3			32
34	54.4	58.8	60.0	60.7	62.0			34
36	51.2	54.6	55.3	56.5	58.3			36
38	48.7	50.5	51.9	53.0	55.4			38
40	43.1	47.2	48.2	49.3	49.6			40
42	41.3	45.1	46.3	46.5	46.8			42
44	39.1	39.7	40.3	41.1	41.8			44
46	36.6	37.6	38.3	39.0	40.8			46
48	34.6	35.9	36.5	37.4	39.1			48
50	32.7	33.4	34.1	34.9	35.7			50
52	31.6	32.2	33.0	34.3	35.2			52
54	30.5	30.7	31.1	32.6	33.9			54
56				31.1	32.6			56
t	150t	150t	150t	150t	150t			t
n	7	7	6	6	6			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	195t	86°	54m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
16	120.6	122.2						16
18	110.2	110.5	110.9	110.9				18
20	97.8	102.9	104.9	106.8	110.8			20
22	90.7	93.5	96.6	97.3	107.7			22
24	84.3	92.0	93.4	93.7	97.2			24
26	78.4	86.5	87.7	88.5	89.9			26
28	73.9	82.2	83.4	83.9	84.2			28
30	68.6	75.2	77.1	78.0	78.6			30
32	64.5	70.2	71.7	72.9	73.7			32
34	60.4	65.3	66.7	67.4	68.9			34
36	56.9	60.7	61.4	62.8	64.8			36
38	54.2	56.1	57.7	58.9	61.6			38
40	47.9	52.4	53.5	54.8	55.1			40
42	45.9	50.1	51.4	51.7	52.0			42
44	43.5	44.1	44.7	45.7	46.4			44
46	40.7	41.8	42.6	43.3	45.4			46
48	38.4	39.9	40.6	41.6	43.5			48
50	36.4	37.1	37.9	38.8	39.7			50
52	35.1	35.7	36.7	38.2	39.2			52
54	33.8	34.1	34.6	36.3	37.6			54
56				34.6	36.2			56
t	150t	150t	150t	150t	150t			t
n	6	6	6	6	6			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	215t	86°	54m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
16	127.3	129.0						16
18	116.3	116.7	117.1	117.1				18
20	103.2	108.6	110.7	112.8	116.9			20
22	95.8	101.4	101.9	102.7	113.7			22
24	89.0	97.1	98.6	98.9	104.3			24
26	82.7	93.3	94.4	95.4	97.5			26
28	78.1	89.0	89.8	90.5	91.5			28
30	72.4	82.1	85.4	85.8	86.4			30
32	68.1	77.8	79.2	79.8	80.4			32
34	63.8	73.4	74.7	75.6	76.1			34
36	60.0	69.1	70.4	71.2	71.8			36
38	57.2	64.8	65.8	66.9	67.5			38
40	50.6	58.9	62.3	63.7	64.1			40
42	48.5	55.3	56.4	58.1	58.9			42
44	45.9	46.6	47.2	48.3	49.0			44
46	42.9	44.1	44.9	45.7	47.9			46
48	40.6	42.1	42.8	43.9	45.9			48
50	38.4	39.1	40.0	40.9	41.9			50
52	37.1	37.7	38.8	40.3	41.3			52
54	35.7	36.0	36.5	38.3	39.7			54
56				36.5	38.2			56
t	150t	150t	150t	150t	150t			t
n	7	7	6	6	6			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	235t	86°	54m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
16	134.0	135.8						16
18	122.4	122.8	123.3	123.3				18
20	108.6	114.3	116.5	118.7	123.1			20
22	100.8	106.7	107.3	108.1	119.7			22
24	93.6	102.2	103.8	104.1	109.8			24
26	87.1	98.2	99.4	100.4	102.6			26
28	82.2	93.7	94.5	95.3	96.3			28
30	76.2	86.4	89.9	90.3	90.9			30
32	71.7	81.9	83.4	84.0	84.6			32
34	67.1	77.3	78.6	79.6	80.1			34
36	63.2	72.7	74.1	74.9	75.6			36
38	60.2	68.2	69.3	70.4	71.1			38
40	53.2	62.0	65.6	67.0	67.5			40
42	51.0	58.2	59.4	61.2	62.1			42
44	48.3	49.0	49.7	50.8	51.5			44
46	45.2	46.4	47.3	48.1	50.4			46
48	42.7	44.3	45.1	46.2	48.3			48
50	40.4	41.2	42.1	43.1	44.1			50
52	39.0	39.7	40.8	42.4	43.5			52
54	37.6	37.9	38.4	40.3	41.8			54
56				38.4	40.2			56
t	150t	150t	150t	150t	150t			t
n	8	9	8	8	8			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

7-1-7 On fully extended outriggers, with luffing jib of 48m

m	29m~51.7m	115t	86°	48m	V: 21m	13m×13m 360°	m
	29	34.7	40.3	46	51.7		
16	79.2	80.2					16
18	73.5	74.0	74.6	74.9			18
20	64.1	69.9	70.4	71.6	73.4		20
22	59.5	63.8	64.9	65.3	69.1		22
24	55.3	62.2	62.5	62.9	64.8		24
26	51.4	58.0	59.8	60.3	60.6		26
28	48.5	55.3	55.8	56.2	56.3		28
30	45.0	51.0	51.4	52.4	52.6		30
32	42.3	48.4	48.7	49.1	49.4		32
34	37.4	43.1	44.4	45.2	46.2		34
36	35.2	40.5	41.3	41.7	43.6		36
38	33.6	38.0	38.4	38.9	39.1		38
40	31.4	35.2	35.8	36.5	37.1		40
42	30.1	32.9	33.7	34.4	35.1		42
44	28.5	28.9	29.3	30.0	30.4		44
46	26.8	27.4	27.9	28.4	29.8		46
48	25.9	26.2	26.6	27.3	28.5		48
50			24.9	25.5	25.7		50
t	150t	150t	150t	150t	150t		t
n	5	5	5	5	5		n
%	110	111	211	221	222		%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s		m/s

m	29m~51.7m	135t	86°	48m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
16	87.9	89.1						16
18	81.7	82.2	82.9	83.2				18
20	71.3	77.6	78.2	79.5	81.6			20
22	66.1	70.9	72.1	72.5	76.8			22
24	61.4	69.2	69.4	69.9	72.0			24
26	57.1	64.4	66.4	67.0	67.3			26
28	53.9	61.5	62.0	62.4	62.6			28
30	50.0	56.7	57.1	58.2	58.5			30
32	47.0	53.7	54.1	54.6	54.9			32
34	41.6	47.9	49.3	50.2	51.4			34
36	39.2	45.0	45.9	46.3	48.4			36
38	37.3	42.3	42.6	43.2	43.5			38
40	34.9	39.1	39.7	40.5	41.3			40
42	33.5	36.6	37.4	38.2	39.0			42
44	31.7	32.1	32.6	33.3	33.8			44
46	29.7	30.4	31.0	31.6	33.1			46
48	28.8	29.1	29.6	30.3	31.7			48
50			27.6	28.3	28.5			50
52								52
54								54
56								56
t	150t	150t	150t	150t	150t			t
n	6	6	5	5	5			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	155t	86°	48m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
16	97.7	99.0						16
18	90.8	91.3	92.1	92.4				18
20	79.2	86.3	86.9	88.4	90.6			20
22	73.5	78.8	80.1	80.6	85.3			22
24	68.3	76.9	77.1	77.7	80.0			24
26	63.5	71.6	73.8	74.4	74.8			26
28	59.9	68.3	68.9	69.3	69.5			28
30	55.6	63.0	63.4	64.6	65.0			30
32	52.3	59.7	60.1	60.7	61.0			32
34	46.2	53.2	54.8	55.8	57.1			34
36	43.5	50.0	50.9	51.4	53.8			36
38	41.4	47.0	47.4	48.0	48.3			38
40	38.8	43.4	44.1	45.0	45.9			40
42	37.2	40.7	41.6	42.4	43.4			42
44	35.2	35.7	36.2	37.0	37.6			44
46	33.0	33.8	34.5	35.1	36.8			46
48	32.0	32.3	32.9	33.7	35.2			48
50			30.7	31.4	31.7			50
52								52
54								54
56								56
t	150t	150t	150t	150t	150t			t
n	6	6	6	6	6			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	175t	86°	48m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
16	108.6	110.0						16
18	100.9	101.5	102.4	102.7				18
20	88.0	95.9	96.6	98.2	100.7			20
22	81.7	87.6	89.0	89.6	94.8			22
24	75.8	85.4	85.7	86.3	88.9			24
26	70.5	79.5	82.0	82.7	83.1			26
28	66.6	75.9	76.6	77.0	77.3			28
30	61.7	70.0	70.5	71.8	72.2			30
32	58.1	66.3	66.8	67.4	67.8			32
34	51.3	59.1	60.8	62.0	63.4			34
36	48.4	55.6	56.6	57.1	59.8			36
38	46.0	52.2	52.7	53.4	53.7			38
40	43.1	48.2	49.1	50.0	50.9			40
42	41.3	45.2	46.2	47.2	48.2			42
44	39.1	39.7	40.3	41.1	41.8			44
46	36.7	37.6	38.3	39.0	40.8			46
48	35.6	35.9	36.5	37.4	39.1			48
50			34.1	34.9	35.2			50
52								52
54								54
56								56
t	150t	150t	150t	150t	150t			t
n	7	7	6	6	6			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	195t	86°	48m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
16	120.6	122.2						16
18	112.1	112.8	113.8	114.1				18
20	97.8	106.5	107.3	109.1	111.9			20
22	90.7	97.3	98.9	99.5	105.3			22
24	84.3	94.9	95.2	95.9	98.8			24
26	78.4	88.4	91.1	91.9	92.3			26
28	73.9	84.4	85.1	85.6	85.9			28
30	68.6	77.8	78.3	79.8	80.2			30
32	64.5	73.7	74.2	74.9	75.3			32
34	57.0	65.7	67.6	68.9	70.5			34
36	53.7	61.8	62.9	63.5	66.4			36
38	51.2	58.0	58.5	59.3	59.7			38
40	47.9	53.6	54.5	55.6	56.6			40
42	45.9	50.2	51.3	52.4	53.6			42
44	43.5	44.1	44.7	45.7	46.4			44
46	40.8	41.8	42.6	43.3	45.4			46
48	39.5	39.9	40.6	41.6	43.5			48
50			37.9	38.8	39.1			50
52								52
54								54
56								56
t	150t	150t	150t	150t	150t			t
n	8	8	7	7	7			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	215t	86°	48m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
16	127.3	129.0						16
18	118.3	119.0	120.1	120.4				18
20	103.2	115.4	116.3	117.6	118.1			20
22	95.8	106.9	108.8	110.9	113.7			22
24	89.0	100.1	102.4	103.5	106.0			24
26	82.7	93.3	96.1	97.9	100.0			26
28	78.1	89.0	92.0	92.7	94.1			28
30	72.4	82.1	85.4	86.9	88.1			30
32	68.1	77.8	81.1	82.4	82.9			32
34	63.8	73.4	75.5	76.7	77.8			34
36	60.0	69.1	71.6	72.5	73.5			36
38	57.2	64.8	67.9	68.8	69.3			38
40	50.6	58.9	62.3	64.5	65.8			40
42	48.5	55.3	56.4	58.3	58.9			42
44	45.9	46.6	47.2	48.3	49.0			44
46	45.2	44.1	44.9	45.7	47.9			46
48	44.2	42.1	42.8	43.9	45.9			48
50			40.0	40.9	41.9			50
52								52
54								54
56								56
t	150t	150t	150t	150t	150t			t
n	8	8	8	8	7			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	235t	86°	48m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
16	134.0	135.8						16
18	124.5	125.3	126.4	126.8				18
20	108.6	121.5	122.4	123.8	124.3			20
22	100.8	112.6	114.5	116.7	119.7			22
24	93.6	105.4	107.8	108.9	111.6			24
26	87.1	98.2	101.2	103.0	105.3			26
28	82.2	93.7	96.8	97.6	99.0			28
30	76.2	86.4	89.9	91.5	92.7			30
32	71.7	81.9	85.4	86.7	87.3			32
34	67.1	77.3	79.5	80.7	81.9			34
36	63.2	72.7	75.4	76.3	77.4			36
38	60.2	68.2	71.5	72.4	72.9			38
40	53.2	62.0	65.6	67.9	69.3			40
42	51.0	58.2	59.4	61.4	62.1			42
44	48.3	49.0	49.7	50.8	51.5			44
46	47.6	46.4	47.3	48.1	50.4			46
48	46.5	44.3	45.1	46.2	48.3			48
50			42.1	43.1	44.1			50
52								52
54								54
56								56
t	150t	150t	150t	150t	150t			t
n	8	9	8	8	8			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

LOG

7-2 Boom angle of 78°

7-2-1 On fully extended outriggers, with luffing jib of 84m

m	29m~51.7m	235t	78°	84m	V：21m	13m×13m 360°	m
	29	34.7	40.3	46	51.7		
44	43.7						44
46	40.9	39.0					46
48	38.0	37.1	35.2	33.3			48
50	36.1	35.2	33.3	31.4	30.4		50
52	34.2	33.3	31.4	29.5	28.5		52
54	32.3	31.4	29.5	28.5	26.6		54
56	30.4	29.5	27.6	26.6	25.7		56
58	29.5	27.6	26.6	24.7	23.8		58
60	27.6	26.6	24.7	23.8	22.8		60
62	25.7	24.7	23.8	21.9	20.9		62
64	24.7	23.8	21.9	20.9	20.0		64
66	23.8	22.8	20.9	20.0	19.0		66
68	21.9	20.9	20.0	19.0	18.1		68
70	18.7	20.0	19.0	18.1	17.1		70
72	17.9	17.0	18.1	16.2	15.2		72
74	17.0	16.2	15.3	13.6	14.3		74
76	16.2	15.3	14.5	13.6	12.8		76
78	15.3	14.5	13.6	12.8	11.9		78
80	14.5	13.6	12.8	11.9	11.1		80
82	13.6	12.8	11.9	11.1	10.2		82
84	12.8	11.9	11.1	10.2	9.4		84
86	11.9	11.1	10.2	9.4	8.5		86
88	11.1	10.2	9.4	8.5	8.5		88
90		10.2	9.4	8.5	7.7		90
92			8.5	7.7	6.8		92
94				6.8	6.6		94
96					5.9		96
t	55t	55t	55t	55t	55t		t
n	3	3	2	2	2		n
%	110	111	211	221	222		%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s		m/s

7-2-2 On fully extended outriggers, with luffing jib of 78m

m	29m~51.7m	215t	78°	78m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
40	50.4							40
42	47.5	45.6						42
44	44.7	43.7	40.9					44
46	42.8	40.9	39.0	37.1				46
48	39.9	39.0	37.1	35.2	33.3			48
50	38.0	36.1	35.2	33.3	31.4			50
52	36.1	34.2	33.3	31.4	30.4			52
54	34.2	32.3	31.4	29.5	28.5			54
56	32.3	31.4	29.5	28.5	26.6			56
58	30.4	29.5	27.6	26.6	25.7			58
60	29.5	27.6	26.6	24.7	23.8			60
62	27.2	26.6	24.7	23.8	22.8			62
64	26.4	24.7	23.8	22.8	21.9			64
66	22.1	22.0	21.8	20.9	20.0			66
68	21.3	20.4	20.2	20.0	19.0			68
70	20.4	19.6	17.9	17.6	17.3			70
72	18.7	17.9	17.0	16.2	16.0			72
74	17.9	17.0	16.2	15.3	14.5			74
76	17.0	16.2	15.3	14.5	13.6			76
78	16.2	15.3	14.5	13.6	12.8			78
80	15.3	14.5	13.6	12.8	11.9			80
82	14.5	13.6	12.8	11.9	11.1			82
84		13.6	11.9	11.1	11.1			84
86			11.9	11.1	10.2			86
88				10.2	9.4			88
90					8.5			90
t	55t	55t	55t	55t	55t			t
n	3	3	3	3	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	235t	78°	78m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
40	50.4							40
42	47.5	45.6						42
44	44.7	43.7	40.9					44
46	42.8	40.9	39.0	37.1				46
48	39.9	39.0	37.1	35.2	33.3			48
50	38.0	36.1	35.2	33.3	31.4			50
52	36.1	34.2	33.3	31.4	30.4			52
54	34.2	32.3	31.4	29.5	28.5			54
56	32.3	31.4	29.5	28.5	26.6			56
58	30.4	29.5	27.6	26.6	25.7			58
60	29.5	27.6	26.6	24.7	23.8			60
62	27.2	26.6	24.7	23.8	22.8			62
64	26.4	24.7	23.8	22.8	21.9			64
66	22.1	22.0	21.8	20.9	20.0			66
68	21.3	20.4	20.2	20.0	19.0			68
70	20.4	19.6	17.9	17.6	17.3			70
72	18.7	17.9	17.0	16.2	16.0			72
74	17.9	17.0	16.2	15.3	14.5			74
76	17.0	16.2	15.3	14.5	13.6			76
78	16.2	15.3	14.5	13.6	12.8			78
80	15.3	14.5	13.6	12.8	11.9			80
82	14.5	13.6	12.8	11.9	11.1			82
84		13.6	11.9	11.1	11.1			84
86			11.9	11.1	10.2			86
88				10.2	9.4			88
90					8.5			90
t	55t	55t	55t	55t	55t			t
n	3	3	3	3	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

7-2-3 On fully extended outriggers, with luffing jib of 72m

m	29m~51.7m	195t	78°	72m	V：21m	13m×13m 360°	m
	29	34.7	40.3	46	51.7		
38	41.9						38
40	39.6	38.1					40
42	37.4	35.9	34.4				42
44	35.2	33.7	32.2	30.7			44
46	32.9	32.2	30.7	29.2	27.7		46
48	31.4	29.9	28.4	27.7	26.2		48
50	29.9	28.4	26.9	26.2	24.7		50
52	27.7	26.9	25.4	24.7	23.2		52
54	26.9	25.4	24.7	23.2	22.4		54
56	25.4	23.9	23.2	21.7	20.9		56
58	23.9	23.2	21.7	20.9	20.2		58
60	21.7	21.0	20.2	18.8	18.1		60
62	21.0	20.2	18.8	18.1	17.3		62
64	20.2	18.8	18.1	17.3	16.6		64
66	18.8	18.1	17.3	16.6	15.2		66
68	18.1	17.3	16.6	15.2	14.5		68
70	17.3	16.6	15.2	14.5	13.7		70
72	16.6	15.9	14.5	13.7	13.0		72
74	15.2	14.5	13.7	13.0	12.3		74
76	14.5	13.7	13.0	12.3	11.6		76
78		13.0	12.3	11.6	10.8		78
80			11.6	10.8	10.7		80
82				10.6	9.9		82
84					9.2		84
t	55t	55t	55t	55t	55t		t
n	3	3	2	2	2		n
%	110	111	211	221	222		%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s		m/s

m	29m~51.7m	215t	78°	72m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
38	56.1							38
40	52.3	50.4						40
42	49.4	47.5	45.6					42
44	46.6	44.7	42.8	41.8				44
46	43.7	42.8	40.9	39.0	38.0			46
48	41.8	39.9	39.0	37.1	35.2			48
50	39.9	38.0	36.1	35.2	33.3			50
52	38.0	36.1	34.2	33.3	31.4			52
54	36.1	34.2	33.3	31.4	30.4			54
56	34.2	32.3	31.4	29.5	28.5			56
58	32.3	31.4	29.5	28.5	26.6			58
60	27.2	29.5	28.5	26.6	25.7			60
62	26.4	25.5	25.3	25.2	24.7			62
64	24.7	23.8	23.0	22.9	22.8			64
66	23.8	23.0	21.3	20.4	20.2			66
68	23.0	21.3	20.4	19.6	18.7			68
70	21.3	20.4	19.6	18.7	17.9			70
72	20.4	19.6	18.7	17.9	17.0			72
74	19.6	18.7	17.9	17.0	16.2			74
76	18.7	17.9	17.0	16.2	15.3			76
78		17.0	16.2	15.3	14.5			78
80			15.3	14.5	13.6			80
82				13.6	12.8			82
84					11.9			84
t	150t	150t	55t	55t	55t			t
n	4	3	3	3	3			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	235t	78°	72m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
38	56.1							38
40	52.3	50.4						40
42	49.4	47.5	45.6					42
44	46.6	44.7	42.8	41.8				44
46	43.7	42.8	40.9	39.0	38.0			46
48	41.8	39.9	39.0	37.1	35.2			48
50	39.9	38.0	36.1	35.2	33.3			50
52	38.0	36.1	34.2	33.3	31.4			52
54	36.1	34.2	33.3	31.4	30.4			54
56	34.2	32.3	31.4	29.5	28.5			56
58	32.3	31.4	29.5	28.5	26.6			58
60	27.2	29.5	28.5	26.6	25.7			60
62	26.4	25.5	25.3	25.2	24.7			62
64	24.7	23.8	23.0	22.9	22.8			64
66	23.8	23.0	21.3	20.4	20.2			66
68	23.0	21.3	20.4	19.6	18.7			68
70	21.3	20.4	19.6	18.7	17.9			70
72	20.4	19.6	18.7	17.9	17.0			72
74	19.6	18.7	17.9	17.0	16.2			74
76	18.7	17.9	17.0	16.2	15.3			76
78		17.0	16.2	15.3	14.5			78
80			15.3	14.5	13.6			80
82				13.6	12.8			82
84					11.9			84
t	150t	150t	55t	55t	55t			t
n	4	3	3	3	3			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

7-2-4 On fully extended outriggers, with luffing jib of 66m

m	29m~51.7m	175t	78°	66m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
36	41.9							36
38	39.8	38.4						38
40	37.1	36.4	34.3					40
42	35.0	34.3	32.3	31.6				42
44	32.9	32.3	30.9	29.5	28.1			44
46	31.6	30.2	28.8	28.1	26.8			46
48	29.5	28.8	27.5	26.1	25.4			48
50	28.1	27.5	26.1	24.7	24.0			50
52	26.8	26.1	24.7	24.0	22.7			52
54	23.5	22.9	21.6	21.0	19.7			54
56	21.5	20.9	19.7	19.0	18.4			56
58	20.9	19.7	19.0	18.4	17.2			58
60	19.7	19.0	17.8	17.2	16.6			60
62	19.0	17.8	17.2	16.6	16.0			62
64	17.8	17.2	16.6	15.4	14.7			64
66	17.2	16.6	15.4	14.7	14.1			66
68	16.0	15.4	14.7	14.1	13.5			68
70	15.4	14.7	14.1	13.5	12.9			70
72		14.1	13.5	12.9	12.3			72
74			12.9	12.3	11.7			74
76				11.7	11.1			76
78					10.3			78
t	55t	55t	55t	55t	55t			t
n	3	3	2	2	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	195t	78°	66m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
36	49.3							36
38	46.8	45.2						38
40	43.6	42.8	40.4					40
42	41.2	40.4	38.0	37.1				42
44	38.8	38.0	36.3	34.7	33.1			44
46	37.1	35.5	33.9	33.1	31.5			46
48	34.7	33.9	32.3	30.7	29.9			48
50	33.1	32.3	30.7	29.1	28.3			50
52	31.5	30.7	29.1	28.3	26.6			52
54	27.7	26.9	25.4	24.7	23.2			54
56	25.3	24.6	23.1	22.4	21.7			56
58	24.6	23.1	22.4	21.7	20.2			58
60	23.1	22.4	21.0	20.2	19.5			60
62	22.4	21.0	20.2	19.5	18.8			62
64	21.0	20.2	19.5	18.1	17.3			64
66	20.2	19.5	18.1	17.3	16.6			66
68	18.8	18.1	17.3	16.6	15.9			68
70	18.1	17.3	16.6	15.9	15.2			70
72		16.6	15.9	15.2	14.5			72
74			15.2	14.5	13.7			74
76				13.7	13.0			76
78					12.3			78
t	55t	55t	55t	55t	55t			t
n	3	3	3	3	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	215t	78°	66m	V: 21m	13m×13m 360°	m
	29	34.7	40.3	46	51.7		
36	55.0					36
38	51.9	50.6				38
40	48.9	47.5	45.4			40
42	46.2	44.9	42.7	41.4		42
44	43.6	42.3	40.5	38.7	37.5	44
46	41.4	40.1	38.3	37.0	35.2	46
48	39.2	37.9	36.1	34.8	33.5	48
50	37.0	36.1	34.3	33.1	31.7	50
52	35.2	34.3	32.6	31.7	29.9	52
54	32.4	31.5	29.8	29.0	27.3	54
56	30.1	29.4	27.7	26.9	26.0	56
58	27.6	27.7	26.9	25.6	24.4	58
60	26.0	25.2	25.2	24.1	23.5	60
62	24.8	23.7	22.9	23.1	22.2	62
64	23.7	22.9	21.7	20.5	21.0	64
66	22.4	21.7	20.5	19.7	18.9	66
68	21.3	20.5	19.7	18.9	18.1	68
70	20.5	19.7	18.9	17.7	16.9	70
72		18.9	17.7	16.9	16.2	72
74			16.9	16.2	15.4	74
76				15.4	14.6	76
78					13.8	78
t	150t	150t	55t	55t	55t	t
n	4	3	3	3	3	n
%	110	111	211	221	222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	29m~51.7m	235t	78°	66m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
36	60.8							36
38	57.0	56.1						38
40	54.2	52.3	50.4					40
42	51.3	49.4	47.5	45.6				42
44	48.5	46.6	44.7	42.8	41.8			44
46	45.6	44.7	42.8	40.9	39.0			46
48	43.7	41.8	39.9	39.0	37.1			48
50	40.9	39.9	38.0	37.1	35.2			50
52	39.0	38.0	36.1	35.2	33.3			52
54	37.1	36.1	34.2	33.3	31.4			54
56	34.9	34.2	32.3	31.4	30.4			56
58	30.6	32.3	31.4	29.5	28.5			58
60	28.9	28.1	29.5	28.1	27.6			60
62	27.2	26.4	25.5	26.6	25.7			62
64	26.4	25.5	23.8	23.0	24.7			64
66	24.7	23.8	23.0	22.1	21.3			66
68	23.8	23.0	22.1	21.3	20.4			68
70	23.0	22.1	21.3	19.6	18.7			70
72		21.3	19.6	18.7	17.9			72
74			18.7	17.9	17.0			74
76				17.0	16.2			76
78					15.3			78
t	150t	150t	150t	55t	55t			t
n	4	4	3	3	3			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

7-2-5 On fully extended outriggers, with luffing jib of 60m

m	29m~51.7m	155t	78°	60m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
34	39.7							34
36	36.8	35.6						36
38	35.0	33.8	32.1	30.9				38
40	32.7	32.1	30.3	29.2	28.6			40
42	30.9	30.3	28.6	28.0	26.8			42
44	29.2	28.6	27.4	26.3	25.1			44
46	28.0	26.8	25.7	25.1	23.9			46
48	26.3	25.7	24.5	23.3	22.8			48
50	23.2	22.7	21.6	20.5	20.0			50
52	21.4	20.9	19.8	18.8	18.3			52
54	20.4	19.8	18.8	18.3	17.2			54
56	19.3	18.8	17.7	17.2	16.7			56
58	18.3	17.7	17.2	16.2	15.7			58
60	17.7	17.2	16.2	15.7	15.1			60
62	16.7	16.2	15.7	14.6	14.1			62
64	16.2	15.7	14.6	14.1	13.6			64
66	15.1	14.6	14.1	13.6	13.1			66
68		14.1	13.6	13.1	12.5			68
70			13.1	12.0	12.0			70
72				11.5	11.0			72
t	55t	55t	55t	55t	55t			t
n	3	2	2	2	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	175t	78°	60m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
34	46.7							34
36	43.2	41.9						36
38	41.2	39.8	37.8	36.4				38
40	38.4	37.8	35.7	34.3	33.6			40
42	36.4	35.7	33.6	32.9	31.6			42
44	34.3	33.6	32.3	30.9	29.5			44
46	32.9	31.6	30.2	29.5	28.1			46
48	30.9	30.2	28.8	27.5	26.8			48
50	27.3	26.7	25.4	24.2	23.5			50
52	25.2	24.6	23.3	22.1	21.5			52
54	24.0	23.3	22.1	21.5	20.3			54
56	22.7	22.1	20.9	20.3	19.7			56
58	21.5	20.9	20.3	19.0	18.4			58
60	20.9	20.3	19.0	18.4	17.8			60
62	19.7	19.0	18.4	17.2	16.6			62
64	19.0	18.4	17.2	16.6	16.0			64
66	17.8	17.2	16.6	16.0	15.4			66
68		16.6	16.0	15.4	14.7			68
70			15.4	14.1	14.1			70
72				13.5	12.9			72
t	55t	55t	55t	55t	55t			t
n	3	3	3	3	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	195t	78°	60m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
34	54.9							34
36	50.9	49.3						36
38	48.5	46.8	44.4	42.8				38
40	45.2	44.4	42.0	40.4	39.6			40
42	42.8	42.0	39.6	38.8	37.1			42
44	40.4	39.6	38.0	36.3	34.7			44
46	38.8	37.1	35.5	34.7	33.1			46
48	36.3	35.5	33.9	32.3	31.5			48
50	32.2	31.4	29.9	28.4	27.7			50
52	29.6	28.9	27.5	26.0	25.3			52
54	28.2	27.5	26.0	25.3	23.8			54
56	26.7	26.0	24.6	23.8	23.1			56
58	25.3	24.6	23.8	22.4	21.7			58
60	24.6	23.8	22.4	21.7	21.0			60
62	23.1	22.4	21.7	20.2	19.5			62
64	22.4	21.7	20.2	19.5	18.8			64
66	21.0	20.2	19.5	18.8	18.1			66
68		19.5	18.8	18.1	17.3			68
70			18.1	16.6	16.6			70
72				15.9	15.2			72
t	150t	150t	55t	55t	55t			t
n	4	3	3	3	3			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	215t	78°	60m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
34	61.2							34
36	56.8	55.0						36
38	54.2	52.4	49.8	48.0				38
40	50.6	49.3	47.1	45.4	44.0			40
42	48.0	46.6	44.5	43.1	41.4			42
44	45.4	44.0	42.3	40.5	39.2			44
46	43.1	41.8	40.1	38.7	37.0			46
48	41.0	39.6	37.9	36.6	35.2			48
50	36.9	36.5	34.9	33.2	32.4			50
52	34.8	34.0	32.4	31.1	30.2			52
54	31.5	31.1	30.2	29.6	28.5			54
56	29.9	29.2	28.4	27.9	27.3			56
58	28.4	27.6	26.8	25.2	24.8			58
60	27.6	26.4	25.2	24.4	23.7			60
62	26.0	25.2	24.0	22.9	22.1			62
64	25.2	24.0	22.9	22.1	21.3			64
66	23.7	22.9	22.1	21.3	20.1			66
68		22.1	20.9	20.1	19.3			68
70			20.1	18.9	18.5			70
72				18.1	17.4			72
t	150t	150t	55t	55t	55t			t
n	4	4	3	3	3			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	235t	78°	60m	V: 21m	13m×13m 360°	m
	29	34.7	40.3	46	51.7		
34	67.5						34
36	62.7	60.8					36
38	59.9	58.0	55.1	53.2			38
40	56.1	54.2	52.3	50.4	48.5		40
42	53.2	51.3	49.4	47.5	45.6		42
44	50.4	48.5	46.6	44.7	43.7		44
46	47.5	46.6	44.7	42.8	40.9		46
48	45.6	43.7	41.8	40.9	39.0		48
50	41.7	41.5	39.9	38.0	37.1		50
52	40.0	39.1	37.4	36.1	35.2		52
54	34.9	34.7	34.3	34.0	33.3		54
56	33.2	32.3	32.2	32.0	31.5		56
58	31.5	30.6	29.8	28.1	28.0		58
60	30.6	28.9	28.1	27.2	26.4		60
62	28.9	28.1	26.4	25.5	24.7		62
64	28.1	26.4	25.5	24.7	23.8		64
66	26.4	25.5	24.7	23.8	22.1		66
68		24.7	23.0	22.1	21.3		68
70			22.1	21.3	20.4		70
72				20.4	19.6		72
t	150t	150t	150t	150t	150t		t
n	4	4	4	4	3		n
%	110	111	211	221	222		%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s		m/s

7-2-6 On fully extended outriggers, with luffing jib of 54m

m	29m~51.7m	135t	78°	54m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
32	36.7							32
34	34.7	33.2	32.2					34
36	32.2	31.2	30.3	29.3				36
38	30.7	29.8	28.3	27.3	26.3			38
40	28.8	27.8	26.8	25.8	24.8			40
42	27.3	26.3	25.3	24.3	23.8			42
44	25.8	25.3	24.3	23.3	22.3			44
46	23.0	22.0	21.1	20.2	19.8			46
48	20.9	20.4	19.5	18.6	18.2			48
50	20.0	19.1	18.6	17.7	17.3			50
52	19.1	18.2	17.7	16.9	16.4			52
54	18.2	17.3	16.9	16.0	15.5			54
56	17.3	16.9	16.0	15.5	14.6			56
58	16.4	16.0	15.1	14.6	14.2			58
60	15.5	15.1	14.6	13.8	13.3			60
62		14.6	13.8	13.3	12.9			62
64			13.3	12.9	12.4			64
66				12.0	11.5			66
t	55t	55t	55t	55t	55t			t
n	3	2	2	2	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	155t	78°	54m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
32	43.2							32
34	40.8	39.1	37.9					34
36	37.9	36.8	35.6	34.4				36
38	36.2	35.0	33.3	32.1	30.9			38
40	33.8	32.7	31.5	30.3	29.2			40
42	32.1	30.9	29.8	28.6	28.0			42
44	30.3	29.8	28.6	27.4	26.3			44
46	27.0	25.9	24.9	23.8	23.2			46
48	24.5	24.0	23.0	21.9	21.4			48
50	23.5	22.4	21.9	20.9	20.4			50
52	22.4	21.4	20.9	19.8	19.3			52
54	21.4	20.4	19.8	18.8	18.3			54
56	20.4	19.8	18.8	18.3	17.2			56
58	19.3	18.8	17.7	17.2	16.7			58
60	18.3	17.7	17.2	16.2	15.7			60
62		17.2	16.2	15.7	15.1			62
64			15.7	15.1	14.6			64
66				14.1	13.6			66
t	55t	55t	55t	55t	55t			t
n	3	3	3	2	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	175t	78°	54m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
32	50.8							32
34	48.0	46.0	44.6					34
36	44.6	43.2	41.9	40.5				36
38	42.6	41.2	39.1	37.8	36.4			38
40	39.8	38.4	37.1	35.7	34.3			40
42	37.8	36.4	35.0	33.6	32.9			42
44	35.7	35.0	33.6	32.3	30.9			44
46	31.8	30.5	29.2	28.0	27.3			46
48	28.9	28.2	27.0	25.8	25.2			48
50	27.6	26.4	25.8	24.6	24.0			50
52	26.4	25.2	24.6	23.3	22.7			52
54	25.2	24.0	23.3	22.1	21.5			54
56	24.0	23.3	22.1	21.5	20.3			56
58	22.7	22.1	20.9	20.3	19.7			58
60	21.5	20.9	20.3	19.0	18.4			60
62		20.3	19.0	18.4	17.8			62
64			18.4	17.8	17.2			64
66				16.6	16.0			66
t	55t	55t	55t	55t	55t			t
n	3	3	3	3	3			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	195t	78°	54m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
32	59.8							32
34	56.5	54.1	52.5					34
36	52.5	50.9	49.3	47.6				36
38	50.1	48.5	46.0	44.4	42.8			38
40	46.8	45.2	43.6	42.0	40.4			40
42	44.4	42.8	41.2	39.6	38.8			42
44	42.0	41.2	39.6	38.0	36.3			44
46	37.4	35.9	34.4	32.9	32.2			46
48	34.0	33.2	31.8	30.3	29.6			48
50	32.5	31.1	30.3	28.9	28.2			50
52	31.1	29.6	28.9	27.5	26.7			52
54	29.6	28.2	27.5	26.0	25.3			54
56	28.2	27.5	26.0	25.3	23.8			56
58	26.7	26.0	24.6	23.8	23.1			58
60	25.3	24.6	23.8	22.4	21.7			60
62		23.8	22.4	21.7	21.0			62
64			21.7	21.0	20.2			64
66				19.5	18.8			66
t	150t	150t	150t	150t	150t			t
n	4	4	3	3	3			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	215t	78°	54m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
32	66.5							32
34	62.9	60.3	58.5					34
36	58.5	56.8	55.0	53.3				36
38	55.4	54.2	51.5	49.8	48.0			38
40	52.4	50.6	48.9	47.1	45.4			40
42	49.8	48.0	46.2	44.5	43.1			42
44	47.1	45.8	44.0	42.3	41.0			44
46	43.4	41.7	40.0	38.8	37.5			46
48	37.8	37.4	36.5	35.8	35.2			48
50	36.2	35.1	33.9	33.1	32.7			50
52	34.7	33.1	32.3	30.7	30.3			52
54	33.1	31.5	30.7	29.2	28.4			54
56	31.5	30.3	29.2	28.4	26.8			56
58	29.9	29.2	27.6	26.8	26.0			58
60	28.4	27.6	26.8	25.2	24.4			60
62		26.4	25.2	24.4	23.7			62
64			24.4	23.2	22.4			64
66				22.1	21.3			66
t	150t	150t	150t	150t	150t			t
n	4	4	4	4	3			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	235t	78°	54m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
32	73.2							32
34	69.4	66.5	64.6					34
36	64.6	62.7	60.8	58.9				36
38	60.8	59.9	57.0	55.1	53.2			38
40	58.0	56.1	54.2	52.3	50.4			40
42	55.1	53.2	51.3	49.4	47.5			42
44	52.3	50.4	48.5	46.6	45.6			44
46	49.4	47.5	45.6	44.7	42.8			46
48	41.7	41.5	41.3	41.2	40.9			48
50	40.0	39.1	37.4	37.3	37.2			50
52	38.3	36.6	35.7	34.0	33.9			52
54	36.6	34.9	34.0	32.3	31.5			54
56	34.9	33.2	32.3	31.5	29.8			56
58	33.2	32.3	30.6	29.8	28.9			58
60	31.5	30.6	29.8	28.1	27.2			60
62		28.9	28.1	27.2	26.4			62
64			27.2	25.5	24.7			64
66				24.7	23.8			66
t	150t	150t	150t	150t	150t			t
n	5	4	4	4	4			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

7-2-7 On fully extended outriggers, with luffing jib of 48m

m	29m~51.7m	115t	78°	48m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
28	36.7							28
30	34.6	33.3						30
32	32.0	31.2	29.9					32
34	30.3	29.5	28.2	27.4				34
36	28.7	27.8	26.6	25.7	24.9			36
38	27.0	26.1	25.3	24.0	23.6			38
40	25.3	24.4	23.6	22.8	22.3			40
42	22.3	21.5	20.7	19.9	19.5			42
44	20.4	20.0	19.2	18.5	17.7			44
46	19.2	18.9	18.1	17.3	17.0			46
48	18.5	18.1	17.3	16.6	16.2			48
50	17.7	17.0	16.6	15.8	15.5			50
52	16.6	16.2	15.5	15.1	14.7			52
54	15.8	15.5	15.1	14.3	14.0			54
56		14.7	14.3	13.6	13.2			56
58			13.6	13.2	12.8			58
60				12.4	12.1			60
t	55t	55t	55t	55t	55t			t
n	3	2	2	2	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	135t	78°	48m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
28	43.1							28
30	40.7	39.2						30
32	37.7	36.7	35.2					32
34	35.7	34.7	33.2	32.2				34
36	33.7	32.7	31.2	30.3	29.3			36
38	31.7	30.7	29.8	28.3	27.8			38
40	29.8	28.8	27.8	26.8	26.3			40
42	26.2	25.3	24.3	23.4	23.0			42
44	24.0	23.5	22.6	21.7	20.9			44
46	22.6	22.2	21.3	20.4	20.0			46
48	21.7	21.3	20.4	19.5	19.1			48
50	20.9	20.0	19.5	18.6	18.2			50
52	19.5	19.1	18.2	17.7	17.3			52
54	18.6	18.2	17.7	16.9	16.4			54
56		17.3	16.9	16.0	15.5			56
58			16.0	15.5	15.1			58
60				14.6	14.2			60
t	55t	55t	55t	55t	55t			t
n	3	3	2	2	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	155t	78°	48m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
28	50.8							28
30	47.8	46.1						30
32	44.3	43.2	41.4					32
34	42.0	40.8	39.1	37.9				34
36	39.7	38.5	36.8	35.6	34.4			36
38	37.3	36.2	35.0	33.3	32.7			38
40	35.0	33.8	32.7	31.5	30.9			40
42	30.8	29.7	28.6	27.6	27.0			42
44	28.2	27.7	26.6	25.6	24.5			44
46	26.6	26.1	25.1	24.0	23.5			46
48	25.6	25.1	24.0	23.0	22.4			48
50	24.5	23.5	23.0	21.9	21.4			50
52	23.0	22.4	21.4	20.9	20.4			52
54	21.9	21.4	20.9	19.8	19.3			54
56		20.4	19.8	18.8	18.3			56
58			18.8	18.3	17.7			58
60				17.2	16.7			60
t	55t	55t	55t	55t	55t			t
n	3	3	3	3	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	175t	78°	48m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
28	59.7							28
30	56.3	54.2						30
32	52.2	50.8	48.7					32
34	49.4	48.0	46.0	44.6				34
36	46.7	45.3	43.2	41.9	40.5			36
38	43.9	42.6	41.2	39.1	38.4			38
40	41.2	39.8	38.4	37.1	36.4			40
42	36.2	35.0	33.7	32.4	31.8			42
44	33.2	32.5	31.3	30.1	28.9			44
46	31.3	30.7	29.5	28.2	27.6			46
48	30.1	29.5	28.2	27.0	26.4			48
50	28.9	27.6	27.0	25.8	25.2			50
52	27.0	26.4	25.2	24.6	24.0			52
54	25.8	25.2	24.6	23.3	22.7			54
56		24.0	23.3	22.1	21.5			56
58			22.1	21.5	20.9			58
60				20.3	19.7			60
t	150t	150t	150t	150t	150t			t
n	4	4	3	3	3			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	195t	78°	48m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
28	70.3							28
30	66.2	63.8						30
32	61.4	59.8	57.3					32
34	58.1	56.5	54.1	52.5				34
36	54.9	53.3	50.9	49.3	47.6			36
38	51.7	50.1	48.5	46.0	45.2			38
40	48.5	46.8	45.2	43.6	42.8			40
42	42.6	41.1	39.6	38.1	37.4			42
44	39.0	38.3	36.8	35.4	34.0			44
46	36.8	36.1	34.7	33.2	32.5			46
48	35.4	34.7	33.2	31.8	31.1			48
50	34.0	32.5	31.8	30.3	29.6			50
52	31.8	31.1	29.6	28.9	28.2			52
54	30.3	29.6	28.9	27.5	26.7			54
56		28.2	27.5	26.0	25.3			56
58			26.0	25.3	24.6			58
60				23.8	23.1			60
t	150t	150t	150t	150t	150t			t
n	5	4	4	3	3			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	215t	78°	48m	V: 21m	13m×13m 360°	m
	29	34.7	40.3	46	51.7		
28	78.4					28
30	73.5	71.3				30
32	68.7	66.5	64.3			32
34	64.7	62.9	60.3	58.5		34
36	61.2	59.4	56.8	55.0	53.3	36
38	57.7	55.9	53.7	51.5	50.2	38
40	54.2	52.4	50.6	48.9	47.5	40
42	48.9	48.1	46.4	44.7	43.4	42
44	43.7	44.6	43.6	41.9	40.7	44
46	41.4	40.2	40.7	39.9	38.6	46
48	39.4	38.6	37.0	36.1	35.6	48
50	37.8	36.2	35.4	33.9	33.4	50
52	35.9	34.7	33.5	32.3	31.5	52
54	34.3	33.1	32.3	30.7	29.9	54
56		31.5	30.7	29.2	28.4	56
58			29.2	28.4	27.6	58
60				26.8	26.0	60
t	150t	150t	150t	150t	150t	t
n	5	5	4	4	4	n
%	110	111	211	221	222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	29m~51.7m	235t	78°	48m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
28	86.5							28
30	80.8	78.9						30
32	76.0	73.2	71.3					32
34	71.3	69.4	66.5	64.6				34
36	67.5	65.6	62.7	60.8	58.9			36
38	63.7	61.8	58.9	57.0	55.1			38
40	59.9	58.0	56.1	54.2	52.3			40
42	55.3	55.1	53.2	51.3	49.4			42
44	48.5	51.0	50.4	48.5	47.5			44
46	45.9	44.2	46.8	46.5	44.7			46
48	43.4	42.5	40.8	40.5	40.2			48
50	41.7	40.0	39.1	37.4	37.2			50
52	40.0	38.3	37.4	35.7	34.9			52
54	38.3	36.6	35.7	34.0	33.2			54
56		34.9	34.0	32.3	31.5			56
58			32.3	31.5	30.6			58
60				29.8	28.9			60
t	150t	150t	150t	150t	150t			t
n	5	5	5	4	4			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

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7-3 Boom angle of 70°

7-3-1 On fully extended outriggers, with luffing jib of 84m

m	29m~51.7m	235t	70°	84m	V：21m	13m×13m 360°	m
	29	34.7	40.3	46	51.7		
60	20.9						60
62	17.6	17.1					62
64	16.7	15.0	14.3				64
66	15.8	14.1	12.3				66
68	15.0	13.2	11.4	10.5			68
70	14.1	12.3	10.6	8.8	7.6		70
72	13.2	11.4	9.7	7.9	7.0		72
74	12.3	10.6	8.8	7.0	6.2		74
76	11.4	9.7	7.9	7.0	5.3		76
78	10.6	9.7	7.9	6.2	4.4		78
80	9.4	8.8	7.0	5.3	4.0		80
82	8.5	7.7	6.2	4.8			82
84	8.5	6.8	5.1	4.1			84
86	7.7	6.6	4.8	3.4			86
88	6.8	5.9	4.2				88
90	6.0	5.1	3.5				90
92	5.8	4.5					92
94	5.1	3.9					94
96	4.4						96
98	3.8						98
100							100
t	55t	55t	55t	55t	55t		t
n	2	1	1	1	1		n
%	110	111	211	221	222		%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s		m/s

7-3-2 On fully extended outriggers, with luffing jib of 78m

m	29m~51.7m	215t	70°	78m	V：21m	13m×13m 360°	m
	29	34.7	40.3	46	51.7		
56	23.0					56
58	20.5					58
60	18.8	18.6				60
62	18.0	16.4	15.9			62
64	17.2	15.5	13.9	13.3		64
66	16.4	14.7	13.1	11.5	10.6	66
68	14.7	13.9	12.3	10.6	9.0	68
70	13.9	13.1	11.5	9.8	8.2	70
72	13.1	12.3	10.6	9.0	7.4	72
74	12.3	11.5	9.8	8.2	7.4	74
76	12.3	10.6	9.0	7.4	6.5	76
78	11.1	9.8	8.2	7.4	5.7	78
80	10.3	9.0	8.2	6.5	5.2	80
82	9.5	8.7	7.4	5.7	4.5	82
84	8.7	7.9	6.3	5.2	3.9	84
86	7.9	7.1	5.5	4.4		86
88	7.9	6.3	5.2	3.8		88
90	7.1	6.1	4.6			90
92	6.3	5.4	4.0			92
94		4.7	3.4			94
96						96
t	55t	55t	55t	55t	55t	t
n	2	2	1	1	1	n
%	110	111	211	221	222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	29m~51.7m	235t	70°	78m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
56	24.7							56
58	22.0							58
60	20.2	20.0						60
62	19.4	17.6	17.1					62
64	18.5	16.7	15.0	14.3				64
66	17.6	15.8	14.1	12.3	11.4			66
68	15.8	15.0	13.2	11.4	9.7			68
70	15.0	14.1	12.3	10.6	8.8			70
72	14.1	13.2	11.4	9.7	7.9			72
74	13.2	12.3	10.6	8.8	7.9			74
76	13.2	11.4	9.7	7.9	7.0			76
78	11.9	10.6	8.8	7.9	6.2			78
80	11.1	9.7	8.8	7.0	5.6			80
82	10.2	9.4	7.9	6.2	4.9			82
84	9.4	8.5	6.8	5.6	4.2			84
86	8.5	7.7	6.0	4.8	3.5			86
88	8.5	6.8	5.6	4.1				88
90	7.7	6.6	4.9	3.5				90
92	6.8	5.8	4.3					92
94		5.1	3.6					94
96								96
t	55t	55t	55t	55t	55t			t
n	2	2	1	1	1			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

7-3-3 On fully extended outriggers, with luffing jib of 72m

m	29m~51.7m	195t	70°	72m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
56	22.6							56
58	19.4	19.4						58
60	18.7	17.2						60
62	17.2	16.5	14.2					62
64	16.5	15.0	13.5	12.0				64
66	15.7	14.2	12.7	11.2	10.5			66
68	15.0	13.5	12.0	10.5	9.0			68
70	14.2	12.7	11.2	9.7	8.2			70
72	13.5	12.0	10.5	8.9	7.4			72
74	12.3	11.2	9.7	8.1	6.7			74
76	11.6	10.1	8.9	7.3	6.0			76
78	10.8	9.4	7.9	6.6	5.3			78
80	10.0	8.7	7.2	5.8	4.6			80
82	9.3	8.1	6.5	5.1	4.0			82
84	8.5	7.4	5.9	4.5				84
86	7.8	6.7	5.3	4.0				86
88	7.1	6.1	4.7	3.4				88
90		5.4	4.1					90
92			3.5					92
94								94
96								96
t	55t	55t	55t	55t	55t			t
n	2	2	1	1	1			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	215t	70°	72m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
56	25.6							56
58	22.0	22.0						58
60	21.2	19.6						60
62	19.6	18.3	16.3					62
64	18.8	17.2	15.5	13.9				64
66	18.0	16.3	14.7	13.1	12.4			66
68	16.7	15.5	13.9	12.3	10.6			68
70	15.9	14.7	13.1	11.5	9.8			70
72	15.1	13.9	12.3	10.6	9.0			72
74	13.8	13.1	11.5	9.8	8.2			74
76	13.0	11.9	10.6	9.0	7.8			76
78	12.2	11.1	9.5	8.2	7.0			78
80	11.4	10.3	8.7	7.1	6.3			80
82	10.6	9.6	7.9	6.8	5.5			82
84	10.2	8.8	7.6	6.1	4.9			84
86	9.4	8.5	6.9	5.4	4.3			86
88	8.7	7.7	6.2	4.9	3.7			88
90		7.0	5.5	4.3	3.1			90
92			5.0	3.7	3.5			92
94								94
96								96
t	55t	55t	55t	55t	55t			t
n	2	2	1	1	1			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	235t	70°	72m	V：21m	13m×13m 360°	m
	29	34.7	40.3	46	51.7		
56	28.5					56
58	24.6	24.7				58
60	23.8	22.0				60
62	22.0	20.2	18.5			62
64	21.1	19.4	17.6	15.8		64
66	20.2	18.5	16.7	15.0	14.3	66
68	18.5	17.6	15.8	14.1	12.3	68
70	17.6	16.7	15.0	13.2	11.4	70
72	16.7	15.8	14.1	12.3	10.6	72
74	15.3	15.0	13.2	11.4	9.7	74
76	14.5	13.6	12.3	10.6	9.7	76
78	13.6	12.8	11.1	9.7	8.8	78
80	12.8	11.9	10.2	8.5	7.9	80
82	11.9	11.1	9.4	8.5	7.0	82
84	11.9	10.2	9.4	7.7	6.4	84
86	11.1	10.2	8.5	6.8	5.7	86
88	10.2	9.4	7.7	6.4	5.0	88
90		8.5	6.8	5.7	4.4	90
92			6.4	5.0	3.8	92
94				4.3		94
96						96
t	55t	55t	55t	55t	55t	t
n	2	2	2	1	1	n
%	110	111	211	221	222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

7-3-4 On fully extended outriggers, with luffing jib of 66m

m	29m~51.7m	175t	70°	66m	V：21m	13m×13m 360°	m
	29	34.7	40.3	46	51.7		
56	22.7					56
58	19.7	19.5				58
60	19.1	17.8				60
62	17.8	16.5	16.5			62
64	17.2	15.9	14.0	13.7		64
66	15.9	14.6	13.4	12.1	11.3	66
68	15.3	14.0	12.7	11.1	9.5	68
70	14.6	13.4	12.0	10.2	8.6	70
72	13.4	12.7	11.1	9.3	7.8	72
74	12.3	12.1	10.2	8.5	7.0	74
76	11.7	10.8	9.3	7.7	6.3	76
78	11.1	10.0	8.5	7.0	5.6	78
80	10.4	9.2	7.5	6.3	4.9	80
82	9.7	8.4	6.8	5.4	4.3	82
84	8.9	7.7	6.2	4.8	3.6	84
86	8.1	7.0	5.6	4.2		86
88		6.4	4.9	3.7		88
90			4.3			90
92						92
94						94
96						96
t	55t	55t	55t	55t	55t	t
n	2	2	1	1	1	n
%	110	111	211	221	222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	29m~51.7m	195t	70°	66m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
56	26.6							56
58	23.2	22.9						58
60	22.4	20.9						60
62	20.9	19.4	19.4					62
64	20.2	18.7	16.5	16.2				64
66	18.7	17.2	15.7	14.2	13.7			66
68	18.0	16.5	15.0	13.5	12.0			68
70	17.2	15.7	14.2	12.7	11.2			70
72	15.7	15.0	13.5	12.0	10.5			72
74	14.5	14.2	12.7	11.1	9.6			74
76	13.7	13.0	11.9	10.3	8.8			76
78	13.0	12.3	11.0	9.5	8.1			78
80	12.3	11.5	9.9	8.7	7.3			80
82	11.6	10.7	9.1	7.7	6.7			82
84	10.8	9.9	8.4	7.0	5.8			84
86	10.3	9.2	7.7	6.4	5.2			86
88		8.5	7.0	5.8	4.6			88
90			6.4	5.2	4.1			90
92				4.5	3.5			92
94								94
96								96
t	55t	55t	55t	55t	55t			t
n	2	2	2	1	1			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	215t	70°	66m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
56	29.9							56
58	26.1	25.9						58
60	25.3	23.7						60
62	23.7	22.0	21.6					62
64	22.4	20.8	18.8	18.5				64
66	21.2	19.6	18.0	16.3	15.9			66
68	20.4	18.8	17.2	15.5	13.9			68
70	19.2	18.0	15.9	14.3	13.1			70
72	18.0	16.7	15.1	13.5	12.3			72
74	16.6	15.9	14.3	12.6	11.4			74
76	15.8	14.6	13.4	11.7	10.6			76
78	15.0	13.8	12.6	11.3	9.8			78
80	14.2	13.0	11.3	10.5	9.0			80
82	13.4	12.2	10.9	9.4	8.2			82
84	12.6	11.8	10.1	8.6	7.6			84
86	11.9	11.0	9.4	7.9	6.8			86
88		10.2	8.6	7.5	6.1			88
90			7.9	6.8	5.6			90
92				6.1	5.0			92
94					4.4			94
96								96
t	55t	55t	55t	55t	55t			t
n	2	2	2	2	1			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	235t	70°	66m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
56	33.3							56
58	29.0	28.8						58
60	28.2	26.4						60
62	26.4	24.6	23.8					62
64	24.6	22.9	21.1	20.9				64
66	23.8	22.0	20.2	18.5	18.1			66
68	22.9	21.1	19.4	17.6	15.8			68
70	21.1	20.2	17.6	15.8	15.0			70
72	20.2	18.5	16.7	15.0	14.1			72
74	18.7	17.6	15.8	14.1	13.2			74
76	17.9	16.2	15.0	13.2	12.3			76
78	17.0	15.3	14.1	13.2	11.4			78
80	16.2	14.5	12.8	12.3	10.6			80
82	15.3	13.6	12.8	11.1	9.7			82
84	14.5	13.6	11.9	10.2	9.4			84
86	13.6	12.8	11.1	9.4	8.5			86
88		11.9	10.2	9.2	7.7			88
90			9.4	8.5	7.2			90
92				7.7	6.5			92
94					5.8			94
96								96
t	55t	55t	55t	55t	55t			t
n	2	2	2	2	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

7-3-5 On fully extended outriggers, with luffing jib of 60m

m	29m~51.7m	155t	70°	60m	V：21m	13m×13m 360°	m
	29	34.7	40.3	46	51.7		
48	21.6					48	
50	18.9	18.6				50	
52	17.8	16.8	15.8			52	
54	17.3	15.7	14.6	14.1		54	
56	16.2	15.1	14.1	12.4		56	
58	15.1	14.6	13.0	11.7	10.7	58	
60	14.6	13.5	12.4	10.7	9.0	60	
62	14.1	13.0	11.6	9.8	8.1	62	
64	12.5	12.4	10.7	8.9	7.3	64	
66	12.0	11.3	9.8	8.1	6.6	66	
68	11.5	10.4	8.7	7.3	5.9	68	
70	10.9	9.6	7.9	6.4	5.2	70	
72	10.1	8.8	7.2	5.7	4.6	72	
74	9.3	8.1	6.5	5.1	3.9	74	
76		7.4	5.9	4.5		76	
78			5.2	3.9		78	
80						80	
82						82	
t	55t	55t	55t	55t	55t	t	
n	2	2	1	1	1	n	
%	110	111	211	221	222	%	
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s	

m	29m~51.7m	175t	70°	60m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
48	25.4							48
50	22.3	21.9						50
52	21.0	19.7	18.6					52
54	20.3	18.4	17.2	16.6				54
56	19.1	17.8	16.5	14.6				56
58	17.8	17.2	15.3	14.0	13.7			58
60	17.2	15.9	14.6	13.4	12.1			60
62	16.5	15.3	14.0	12.7	11.1			62
64	14.7	14.6	13.4	11.7	10.2			64
66	14.1	13.5	12.1	10.8	9.3			66
68	13.5	12.3	11.1	10.0	8.5			68
70	12.9	11.7	10.4	8.9	7.8			70
72	12.3	11.1	9.6	8.1	7.1			72
74	11.6	10.4	8.9	7.4	6.2			74
76		9.6	8.1	6.8	5.6			76
78			7.4	6.1	5.0			78
80				5.5	4.4			80
82								82
t	55t	55t	55t	55t	55t			t
n	2	2	2	1	1			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	195t	70°	60m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
48	29.9							48
50	26.2	25.8						50
52	24.7	23.2	21.9					52
54	23.9	21.7	20.2	19.6				54
56	22.4	20.9	19.4	17.2				56
58	20.9	20.2	18.0	16.5	16.2			58
60	20.2	18.7	17.2	15.7	14.2			60
62	19.4	18.0	16.5	15.0	13.5			62
64	17.3	17.2	15.7	14.2	12.7			64
66	16.6	15.9	14.2	13.5	12.0			66
68	15.9	14.5	13.0	12.6	11.2			68
70	15.2	13.7	12.9	11.4	10.4			70
72	14.5	13.0	12.0	10.6	9.6			72
74	13.7	12.8	11.2	9.8	8.5			74
76		11.9	10.4	9.1	7.8			76
78			9.6	8.3	7.2			78
80				7.6	6.5			80
82					5.9			82
t	55t	55t	55t	55t	55t			t
n	2	2	2	2	1			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	215t	70°	60m	V: 21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
48	33.5							48
50	29.4	29.0						50
52	27.7	26.1	25.2					52
54	26.9	24.9	22.9	22.2				54
56	25.3	23.7	21.6	19.6				56
58	23.7	22.4	20.4	18.8	18.5			58
60	22.9	21.2	19.6	18.0	16.3			60
62	21.6	20.4	18.3	17.2	15.5			62
64	19.7	19.2	17.5	15.9	14.7			64
66	18.9	17.7	16.3	15.1	13.9			66
68	18.1	16.6	15.0	14.2	13.1			68
70	17.4	15.8	14.5	12.9	12.2			70
72	16.6	15.0	13.7	12.1	11.4			72
74	15.4	14.5	12.8	11.7	10.2			74
76		13.6	12.0	10.9	9.4			76
78			11.2	10.1	9.1			78
80				9.3	8.4			80
82					7.6			82
t	55t	55t	55t	55t	55t			t
n	2	2	2	2	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	235t	70°	60m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
48	37.1							48
50	32.6	32.2						50
52	30.8	29.0	28.5					52
54	29.9	28.2	25.5	24.8				54
56	28.2	26.4	23.8	22.0				56
58	26.4	24.6	22.9	21.1	20.9			58
60	25.5	23.8	22.0	20.2	18.5			60
62	23.8	22.9	20.2	19.4	17.6			62
64	22.1	21.1	19.4	17.6	16.7			64
66	21.3	19.6	18.5	16.7	15.8			66
68	20.4	18.7	17.0	15.8	15.0			68
70	19.6	17.9	16.2	14.5	14.1			70
72	18.7	17.0	15.3	13.6	13.2			72
74	17.0	16.2	14.5	13.6	11.9			74
76		15.3	13.6	12.8	11.1			76
78			12.8	11.9	11.1			78
80				11.1	10.2			80
82					9.4			82
t	55t	55t	55t	55t	55t			t
n	3	2	2	2	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

7-3-6 On fully extended outriggers, with luffing jib of 54m

m	29m~51.7m 135t	70°	54m	V：21m	13m×13m 360°	m
	29	34.7	40.3	46	51.7	
44	21.3					44
46	18.8	18.5				46
48	17.9	17.0				48
50	17.0	16.1	15.9			50
52	16.1	15.2	13.8	13.4		52
54	15.2	14.2	13.3	11.9	10.6	54
56	14.7	13.8	12.4	10.9	9.1	56
58	13.3	12.9	11.8	9.9	8.3	58
60	12.9	12.0	10.9	9.0	7.4	60
62	12.0	11.5	10.0	8.2	6.7	62
64	11.5	10.6	8.8	7.4	5.9	64
66	11.1	9.8	8.0	6.5	5.3	66
68	10.2	9.0	7.3	5.8	4.5	68
70		8.2	6.6	5.1	3.9	70
72			5.9	4.5		72
74				3.9		74
76						76
t	55t	55t	55t	55t	55t	t
n	2	2	1	1	1	n
%	110	111	211	221	222	%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s	m/s

m	29m~51.7m	155t	70°	54m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
44	25.1							44
46	22.2	21.8						46
48	21.1	20.0						48
50	20.0	18.9	18.7					50
52	18.9	17.8	16.2	15.8				52
54	17.8	16.8	15.7	14.6	14.1			54
56	17.3	16.2	14.6	13.5	12.4			56
58	15.7	15.1	14.1	13.0	11.4			58
60	15.1	14.1	13.5	12.1	10.5			60
62	14.1	13.6	12.4	11.2	9.6			62
64	13.6	12.5	11.5	10.3	8.8			64
66	13.1	12.0	10.7	9.1	8.0			66
68	12.5	11.5	9.9	8.4	7.0			68
70		10.7	9.1	7.6	6.4			70
72			8.3	6.9	5.7			72
74				6.2	5.1			74
76					4.5			76
t	55t	55t	55t	55t	55t			t
n	2	2	2	1	1			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	175t	70°	54m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
44	29.5							44
46	26.1	25.6						46
48	24.8	23.5						48
50	23.5	22.3	22.0					50
52	22.3	21.0	19.1	18.6				52
54	21.0	19.7	18.4	17.2	16.6			54
56	20.3	19.1	17.2	15.9	14.6			56
58	18.4	17.8	16.5	15.3	14.0			58
60	17.8	16.6	15.9	14.6	13.4			60
62	16.6	16.0	14.6	14.0	12.5			62
64	16.0	14.7	13.5	12.7	11.6			64
66	15.4	14.1	12.9	11.7	10.7			66
68	14.7	13.5	12.3	10.9	9.6			68
70		12.9	11.6	10.1	8.8			70
72			10.7	9.3	8.1			72
74				8.6	7.4			74
76					6.7			76
t	55t	55t	55t	55t	55t			t
n	2	2	2	2	1			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	195t	70°	54m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
44	34.7							44
46	30.7	30.2						46
48	29.2	27.7						48
50	27.7	26.2	25.8					50
52	26.2	24.7	22.4	21.9				52
54	24.7	23.2	21.7	20.2	19.6			54
56	23.9	22.4	20.2	18.7	17.2			56
58	21.7	20.9	19.4	18.0	16.5			58
60	21.0	19.5	18.7	17.2	15.7			60
62	19.5	18.8	17.2	16.5	15.0			62
64	18.8	17.3	15.9	15.0	14.2			64
66	18.1	16.6	15.2	13.7	13.5			66
68	17.3	15.9	14.5	13.0	12.2			68
70		15.2	13.7	12.3	11.3			70
72			13.0	11.8	10.5			72
74				10.9	9.8			74
76					9.0			76
t	55t	55t	55t	55t	55t			t
n	2	2	2	2	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	215t	70°	54m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
44	39.2							44
46	34.3	33.7						46
48	32.6	31.0						48
50	31.0	29.4	29.1					50
52	29.4	27.7	25.3	24.7				52
54	27.7	26.1	24.5	22.9	22.2			54
56	26.9	25.3	22.9	21.2	19.6			56
58	24.4	23.7	22.0	20.4	18.8			58
60	23.7	22.1	21.2	19.6	18.0			60
62	22.1	20.9	19.6	18.3	17.2			62
64	21.3	19.7	18.1	17.2	16.3			64
66	20.5	18.9	17.4	15.8	15.1			66
68	19.3	18.1	16.6	15.0	14.2			68
70		17.4	15.8	14.2	13.3			70
72			15.0	13.5	12.5			72
74				12.7	11.7			74
76					10.9			76
t	55t	55t	55t	55t	55t			t
n	2	2	2	2	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	235t	70°	54m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
44	43.7							44
46	37.8	37.3						46
48	36.1	34.3						48
50	34.3	32.6	32.3					50
52	32.6	30.8	28.2	27.6				52
54	30.8	29.0	27.3	25.5	24.8			54
56	29.9	28.2	25.5	23.8	22.0			56
58	27.2	26.4	24.6	22.9	21.1			58
60	26.4	24.7	23.8	22.0	20.2			60
62	24.7	23.0	22.0	20.2	19.4			62
64	23.8	22.1	20.4	19.4	18.5			64
66	23.0	21.3	19.6	17.9	16.7			66
68	21.3	20.4	18.7	17.0	16.2			68
70		19.6	17.9	16.2	15.3			70
72			17.0	15.3	14.5			72
74				14.5	13.6			74
76					12.8			76
t	55t	55t	55t	55t	55t			t
n	3	3	2	2	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

7-3-7 On fully extended outriggers, with luffing jib of 48m

m	29m~51.7m	115t	70°	48m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
42	20.2							42
44	17.6	17.2						44
46	16.8	16.0	15.5					46
48	16.0	15.2	14.1					48
50	15.2	14.4	13.3	12.8				50
52	14.4	13.7	12.5	11.1	9.7			52
54	13.2	12.9	12.1	10.1	8.4			54
56	12.8	12.1	11.1	9.2	7.5			56
58	12.1	11.3	9.8	8.3	6.7			58
60	11.7	10.9	9.0	7.5	6.0			60
62	10.9	10.0	8.2	6.6	5.3			62
64		9.1	7.4	5.9	4.5			64
66			6.6	5.2	3.9			66
68				4.5				68
70								70
t	55t	55t	55t	55t	55t			t
n	2	1	1	1	1			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	135t	70°	48m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
42	23.8							42
44	20.7	20.2						44
46	19.8	18.8	18.2					46
48	18.8	17.9	16.5					48
50	17.9	17.0	15.6	15.4				50
52	17.0	16.1	14.7	13.8	13.4			52
54	15.5	15.2	14.2	13.3	11.8			54
56	15.1	14.2	13.3	12.4	10.8			56
58	14.2	13.3	12.4	11.5	9.9			58
60	13.8	12.9	11.9	10.5	9.0			60
62	12.9	12.4	11.0	9.4	8.2			62
64		11.5	10.1	8.6	7.2			64
66			9.3	7.8	6.5			66
68				7.1	5.9			68
70					5.2			70
t	55t	55t	55t	55t	55t			t
n	3	2	2	1	1			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	155t	70°	48m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
42	28.0							42
44	24.3	23.8						44
46	23.2	22.2	21.5					46
48	22.2	21.1	19.5					48
50	21.1	20.0	18.4	18.1				50
52	20.0	18.9	17.3	16.2	15.8			52
54	18.3	17.8	16.8	15.7	14.6			54
56	17.7	16.7	15.7	14.6	13.5			56
58	16.7	15.7	14.6	14.1	13.0			58
60	16.2	15.1	14.1	13.4	12.1			60
62	15.1	14.6	13.1	12.2	11.2			62
64		13.6	12.5	11.3	10.0			64
66			11.9	10.5	9.2			66
68				9.7	8.4			68
70					7.7			70
t	55t	55t	55t	55t	55t			t
n	3	2	2	2	1			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	175t	70°	48m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
42	32.9							42
44	28.6	28.0						44
46	27.3	26.1	25.3					46
48	26.1	24.8	22.9					48
50	24.8	23.5	21.6	21.3				50
52	23.5	22.3	20.3	19.1	18.6			52
54	21.5	21.0	19.7	18.4	17.2			54
56	20.9	19.7	18.4	17.2	15.9			56
58	19.7	18.4	17.2	16.5	15.3			58
60	19.0	17.8	16.6	15.7	14.6			60
62	17.8	17.2	15.4	14.7	14.0			62
64		16.0	14.7	13.5	12.7			64
66			14.1	12.9	11.8			66
68				12.2	11.0			68
70					10.2			70
t	55t	55t	55t	55t	55t			t
n	2	2	2	2	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	195t	70°	48m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
42	38.8							42
44	33.7	32.9						44
46	32.2	30.7	29.7					46
48	30.7	29.2	26.9					48
50	29.2	27.7	25.4	25.0				50
52	27.7	26.2	23.9	22.4	21.9			52
54	25.3	24.7	23.2	21.7	20.2			54
56	24.6	23.1	21.7	20.2	18.7			56
58	23.1	21.7	20.2	19.4	18.0			58
60	22.4	21.0	19.5	18.5	17.2			60
62	21.0	20.2	18.1	17.3	16.5			62
64		18.8	17.3	15.9	15.2			64
66			16.6	15.2	14.5			66
68				14.5	13.6			68
70					12.6			70
t	55t	55t	55t	55t	55t			t
n	3	2	2	2	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	215t	70°	48m	V：21m	13m×13m	360°	m
	29	34.7	40.3	46	51.7			
42	43.6							42
44	38.0	37.1						44
46	36.3	34.3	33.3					46
48	34.3	32.6	30.2					48
50	32.6	31.0	28.6	28.2				50
52	31.0	29.4	27.4	25.3	24.7			52
54	28.4	27.7	26.1	24.5	22.9			54
56	27.6	26.0	24.5	22.9	21.2			56
58	26.0	24.4	22.9	22.0	20.4			58
60	24.8	23.7	21.7	21.0	19.6			60
62	23.7	22.4	20.5	19.3	18.8			62
64		21.3	19.7	18.1	17.4			64
66			18.9	17.4	16.2			66
68				16.6	15.3			68
70					14.4			70
t	55t	55t	55t	55t	55t			t
n	3	3	2	2	2			n
%	110	111	211	221	222			%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s			m/s

m	29m~51.7m	235t	70°	48m	V：21m	13m×13m 360°	m
	29	34.7	40.3	46	51.7		
42	48.5						42
44	42.2	41.4					44
46	40.5	37.8	36.8				46
48	37.8	36.1	33.4				48
50	36.1	34.3	31.7	31.3			50
52	34.3	32.6	30.8	28.2	27.6		52
54	31.5	30.8	29.0	27.3	25.5		54
56	30.6	28.9	27.3	25.5	23.8		56
58	28.9	27.2	25.5	24.6	22.9		58
60	27.2	26.4	23.8	23.5	22.0		60
62	26.4	24.7	23.0	21.3	21.1		62
64		23.8	22.1	20.4	19.6		64
66			21.3	19.6	17.9		66
68				18.7	17.0		68
70					16.2		70
t	55t	55t	55t	55t	55t		t
n	3	3	3	2	2		n
%	110	111	211	221	222		%
m/s	9m/s	9m/s	9m/s	9m/s	9m/s		m/s