

XCA2600 All Terrain Crane

XCA2600

XCMG ALL TERRAIN CRANE
2600t LIFTING CAPACITY



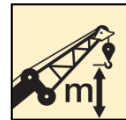
Technical specifications



2600 t



68.6 m



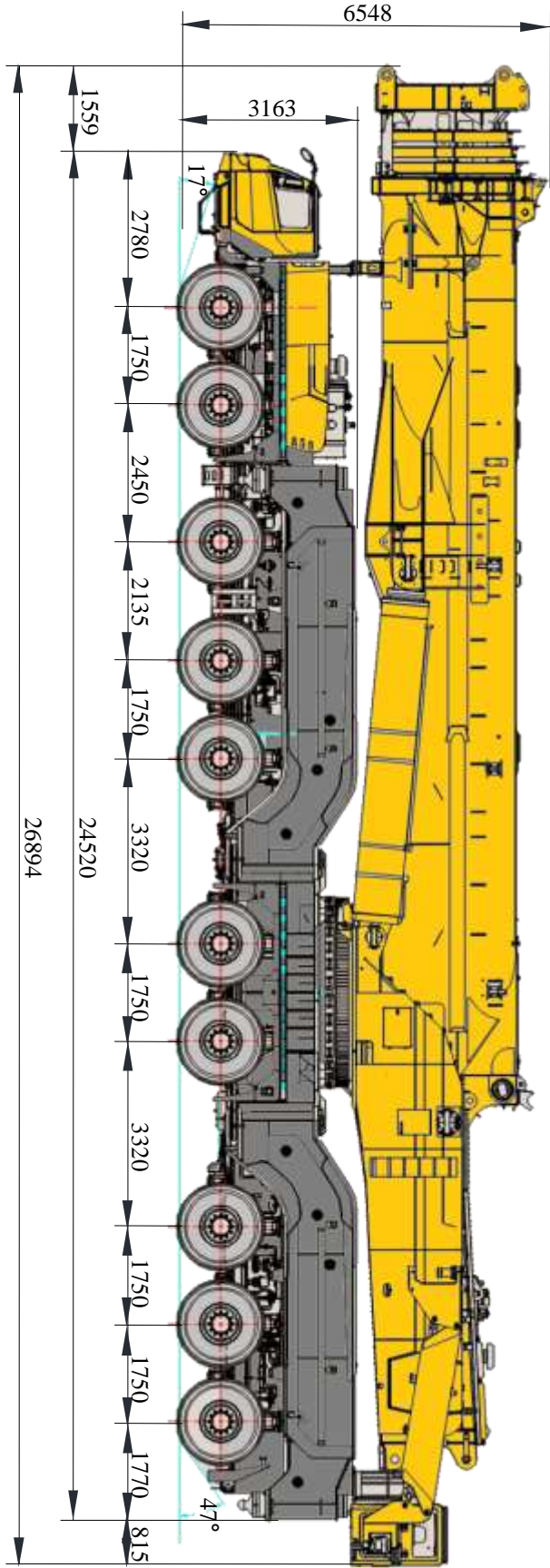
173 m

Contents

Contents

Dimensions	2
Technical specifications	3-5
Weight	6
Working speeds	7
Counterweight	8
Dimensions of parts transported	9-12
Boom/Jib combinations	13-14
Lifting capacities Super lifting device + wind power jib	15-16
Table of main technical parameters	17-18
Description of symbols	19
Notes	20

Dimensions



Technical specifications



Chassis

Frame Designed and manufactured by XCMG, made of high-strength steel, with removable box-structure outriggers.

Outriggers 4 outriggers are arranged in X shape, four-point supporting, with fully-extended outrigger span of 15000×15000 mm; hydraulic control; monitored by electric level gauge.

Engine Weichai engine WP17G770E304; V type 8-cylinder, water cooled, supercharging intercooler, diesel engine, manufactured by Weichai, with rated power of 566 kw /1900 rpm, and max. torque of 3000 N.m / (1200~1500) rpm; compliant with Off-road Stage III emission standard. Fuel tank capacity: 600 L.

Hydraulic system The oil pump for heat dissipation is connected to the PTO port in front of the engine through a transmission shaft, and the variable displacement pump shared for steering, suspensions and outriggers, is connected to the PTO port at the rear of the engine.

Transmission German originally imported ZF electrical-control transmission has both MT and AT, with torque converter and retarder; 12 forward gears and 2 reverse gears.

Axles German Kessler independent suspension axles with 10 axles. Axle 1, 2, 3, 5, 6 and 7 for mechanical driving; standard hydraulic driving axles for Axle 8 and 9 with all wheel steering.

Suspensions Hydro-pneumatic suspension system has good shock-absorbing effect. Various functions such as automatic leveling, moving up and down of suspension, and switching over of elastic and rigid suspension are available. The full stroke of suspension cylinder is - 130mm ~ +170mm.

Tire Imported Bridgestone tire with high bearing capacity. Tire specifications: 505/95R25 (18.00R25)

Brakes Service brake: dual-circuit air pressure brake, acting on all wheels. Parking brake: spring-loaded brake, acting on wheels of axles 1~6 and 7~10. Auxiliary brake: engine brake and transmission retarder brake.

Driver's cab Full dimension steel structure luxury cab has suspension connection structure and rear damper. It is also equipped with adjustable seats, safety glass, electrically operated door window lifter, electric-adjustable mirrors, steering wheel adjustable in height and angle, reverse displayer, and large screen liquid crystal display, etc. New combined central control panel is reasonably arranged with arc shape adopted, presenting human-oriented design concept. Heater, air conditioner and audio system are standard.

Electrical system DC 24 V, with 4 sets of 12 V batteries in series.

Technical specifications



Superstructure

Frame	Designed and manufactured by XCMG, made of high-strength steel.
Hydraulic system	Electric proportional variable displacement pump is used for luffing and telescoping; closed pump is used for lifting and slewing. Through logic control of plug-in valve spool, main valve is used to control telescoping and luffing operation; large power air-cooled hydraulic oil radiator can effectively reduce the oil temperature;
Control system	The pilot proportional operation system is equipped with two levers at left and right sides controlling the main movements of the crane, and stepless slewing speed regulation is available.
Main winch	Driven by a hydraulic motor, with build-in planetary gear reducer. Specific anti-disorder rope winding drum and anti-coiling wire rope are available.
Engine	WP17G770E302; V type 8-cylinder, water cooled, supercharging intercooler, diesel engine, manufactured by Weichai, with rated power of 566kw /2100rpm, and max. torque of 3000 N.m /(1200~1500) rpm; compliant with China III emission standard. Fuel tank capacity: approx. 590 L.
Slewing system	Three-point roller external tooth slewing ring with a dual slewing mechanism is driven by hydraulic motor, with built-in planetary gear reducer and constant-closed brake equipped, and may continuously slew 360°. Power control and free slewing function as well as stepless speed regulation are available.
Operator's cab	The cab is ergonomically designed. Safety glass for windows, sunvisors for windshield and roof window are used. Protective grilles are installed for protecting the roof window. A sliding door and a catwalk with protective handrails are available to make it easy and safe as access and egress the cab. The cab is connected with the turntable through an swing arm, which enables the cab to move forwards/backwards and upwards/downwards, facilitating the operator to get on/off the cab. The cab is designed to turn backwards around the rear pivot to enlarge the operator's field of view.

Safety device	Hydraulic counterbalance valve, hydraulic relief valve, hydraulic double-way valve, LMI are available. Lowering limiter is equipped in winch to prevent rope over-releasing. Anti-two block is fitted on the boom head to prevent rope over-winding. Anemometer is equipped to check whether aerial wind velocity is in safe working range.
Electrical system	DC 24 V, with 2 sets of 12 V batteries in series.
LMI	When the actual load moment is approaching overloading value, audible and visual warning will be sent out, and the dangerous operation will be automatically stopped ahead of overloading. Overload memory function (black box) and fault self-diagnosis function are available.
Combined counterweight	Counterweight slab A: 20 t Counterweight slab B: 10 t Counterweight slab C: 10 t
Hook block	240 t hook block
Boom	5-section boom with U-shaped cross-section, welded structure with an oval lower arc. 2-cylinder pin telescoping cylinder is available. A new type cylinder pin synchronizer driving system and a single-cylinder pinning telescoping system are adopted to guarantee the synchrony of the two cylinder pins. The single cylinder pinning telescoping system is safer and more reliable. 0%, 46%, 92% and fully-extended telescoping modes can be realized. Boom length 19.8m ~ 68.6m. (including the independent jib head)
Super lifting device	Y-shaped, installed at the top of the base boom, with a wire rope with four parts of line.
Wind power jib	50m, 60m.,70m, 80m, 90m100m and 110m.

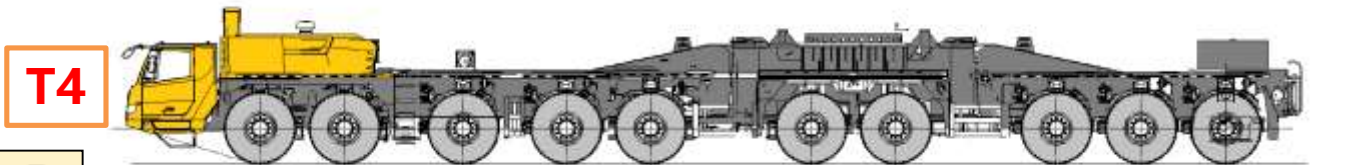
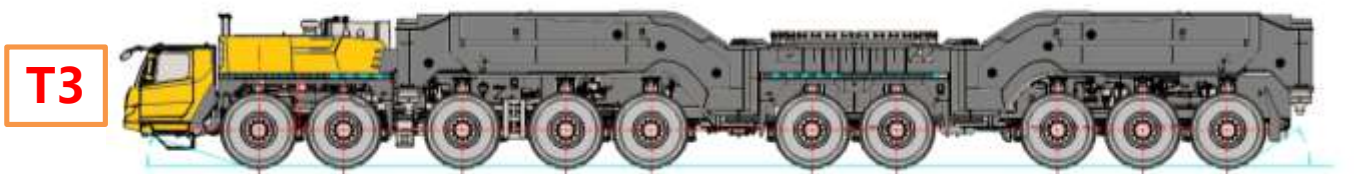
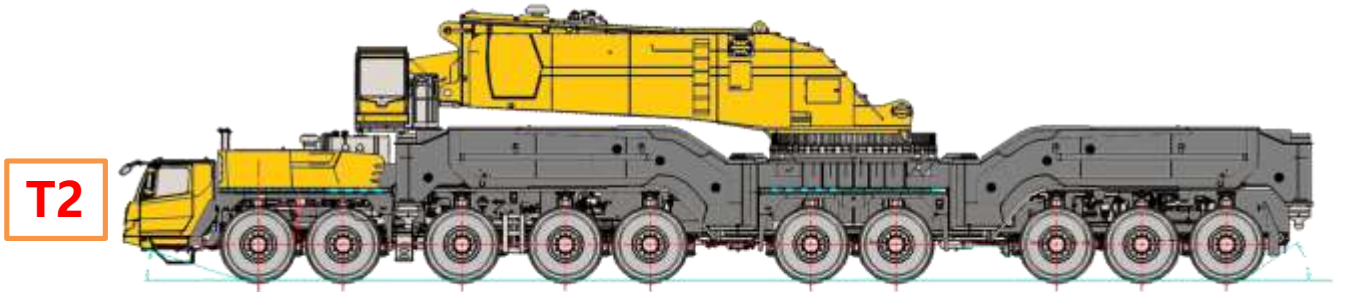
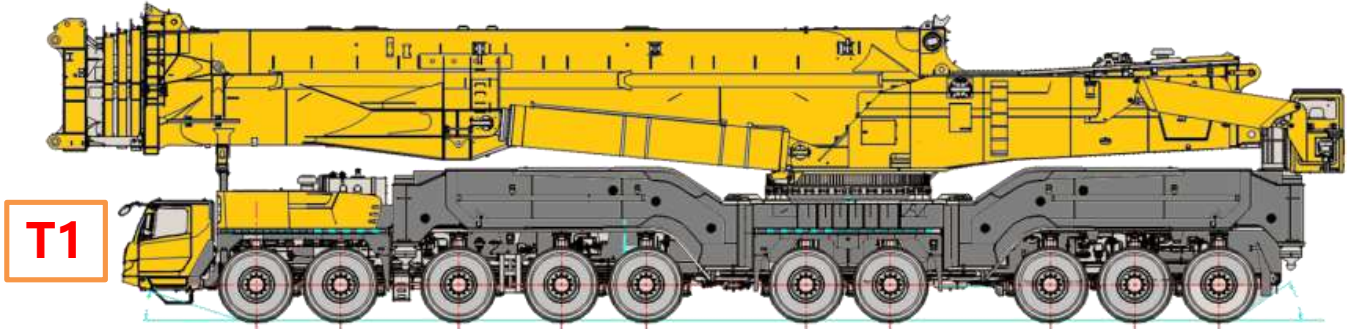
Version and optional equipment

Version	Function description	Selection
Standard	Boom +super lifting device +wind power jib (5-section boom of 68.6 m, wind power jib of 110m and counterweight of 240t)	

Optional equipment		Selection
Auxiliary winch	Auxiliary winch assembly	
Hook block	300 t	
	150 t	
Tire	525/80R25	
Notes:		
The optional equipment is available to all the versions.		


Weight

Jobsite transfer mode	Type	Total weight (kg)	Max. travel speed (km/h)	Max. grade ability (%)	Dimensions (m)
1	T1	317000	10	20	26.9×3.5×6.55
2	T2	192000	50	36	24.52×3.5×5.62
3	T3	125000	80	60	24.52×3.5×3.24
4	T4	75000	80	60	24×3.5×3.24







Axles	1	2	3	4	5	6	7	8	9	10	Total weight (t)
t	32.6	32.6	32.6	32.6	32.6	30.8	30.8	30.8	30.8	30.8	317 ⁽¹⁾
t	19.4	19.4	19.4	19.4	19.4	19	19	19	19	19	192 ⁽²⁾
t	11.7	11.7	11.7	11.7	11.7	13.3	13.3	13.3	13.3	13.3	125 ⁽³⁾
t	8.3	8.3	8.3	8.3	8.3	6.7	6.7	6.7	6.7	6.7	75 ⁽⁴⁾







Weight

	Parts of line	Weight (kg)	Dimensions (mm)
300t	2×9	9800	2100×1186×2290
240 t	15	9100	1840×750×1500
150 t	9	8800	1760×750×1500

Working speeds

			
505/95R25 (18.00R25)		2~80	60%*

*T4

	Drive	Working speeds	Max. single line pull	Rope diameter/length
		0-135 m/min, single line, no load, 11 th layer	180 kN	28 mm/1850 m
		0-135 m/min, single line, no load, 11 th layer	180 kN	28 mm/1850 m
		0-0.8r/min		
		Approx. 350 s for boom luffing from 0° to 86°		
		Approx. 1800 s for boom extending from 19.8 m to 68.6 m		

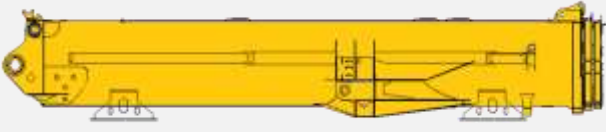
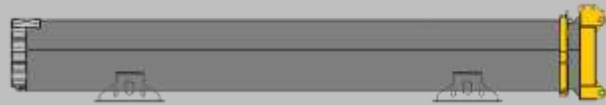
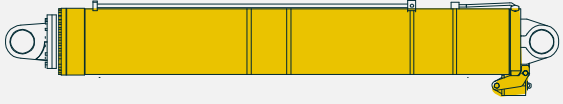
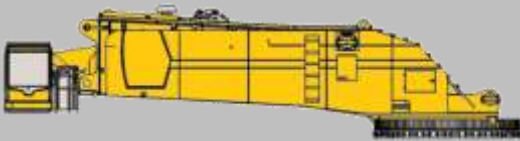



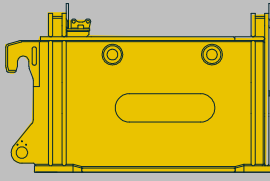
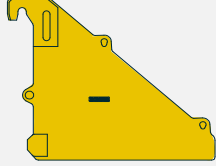
Counterweight



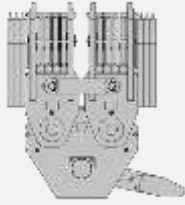
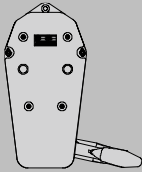
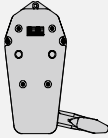
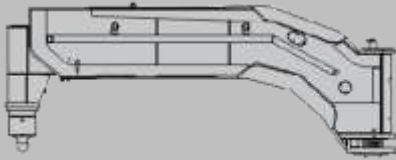
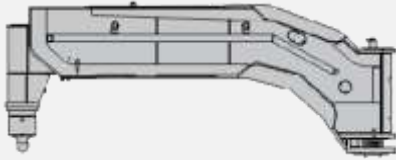
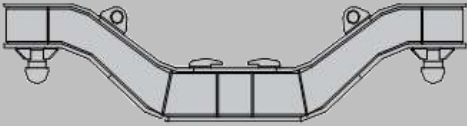



Counterweight	CWT bracket A	CWT basket B	CWT slab C
Dimensions (L×W×H) mm	3730×3050×2375	2972×2940×2315	2700×2450×405
Weight (t)	20	10	10

Working mode	340t	300t	260 t	220 t	180 t	140 t	100 t	60 t	40 t	20 t	0
Combination	A+B×2+ C×30	A+B×2+ C×26	A+B×2+ C×22	A+B×2+ C×18	A+B×2+ C×14	A+B×2+ C×10	A+B×2+ C×6	A+B×2+ C×2	A+B×2	A	0


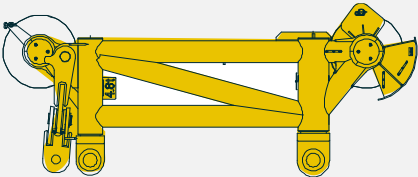
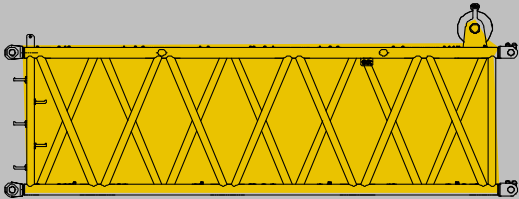
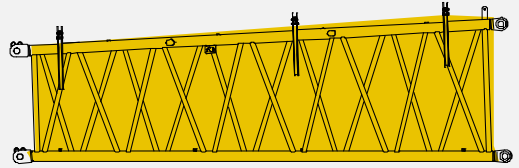
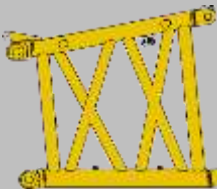
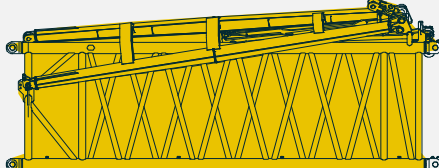
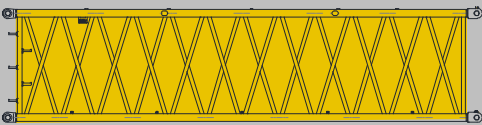
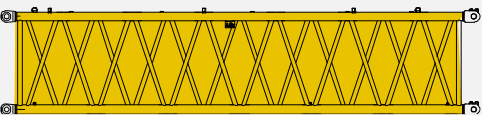
Dimensions of parts to be transported

No.	Part name	Illustrations	Dimensions/mm	Weight per piece/t	Qty
1	Base boom section, 2 nd , 3 rd boom section, telescoping cylinder (with fixture)		18000×3500×3115	73	1
2	4 th and 5 th boom section assembly (with fixture)		17172×2500×2900	31	1
3	Luffing cylinder		6970×834×1248	13	2
4	Turntable component		12000×3500×3150	65	1
5	Left super lifting arm assembly		18204×2010×2489	23.5	1
6	Right super lifting arm assembly		18204×2010×2489	23.5	1
7	CWT slab		2700×2450×405	10	30
8	CWT bracket		4260×3050×2375	20	1
9	CWT basket		2972×2940×2315	10	2

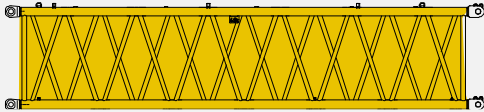
Dimensions of parts to be transported

No.	Part name	Illustrations	Dimensions/mm	Weight per piece/t	Qty
10	240 t hook block		1840×750×1500	9.8	1
11	240 t hook block		1840×750×1500	9.1	1
12	150 t hook block		1760×750×1500	8.8	1
13	Front outrigger beam assembly		7500×1000×2400	13	2
14	Rear outrigger beam assembly		7500×1000×2400	13	2
15	Footing Block		2800×650×720	1.2	4
16	Outrigger float		1000×1000×400	0.28	8
17	Outrigger pad		4500×2500×212	5.5	4
18	Pendant 1, 2, 3		10.23/9.37/1.44	0.55/0.48/0.04	12/2/1

Dimensions of parts to be transported

No.	Part name	Illustrations	Dimensions/mm	Weight per piece/t	Qty
19	Wind power jib head		9380×2220×3680	6.7	1
20	Independent jib head		3810×2460×1585	6.6	1
21	Transition section II		6230×2695×4035	5.0	1
22	Transition section assembly		9260×2580×3040	4.6	1
23	Connecting bracket		3300×2730×2825	5.8	1
24	Wing-type connecting bracket		12145×3620×3740	15.4	1
25	Large extension		10260×2570×2875	4.6	2
26	Small extension I		10260×2225×2560	4.5	1

Dimensions of parts to be transported

No.	Part name	Illustrations	Dimensions/mm	Weight per piece/t	Qty
27	Small extension II		10260×2225×2370	4.2	3

Boom / Jib combinations

Wind power
jib (W)– 50m



Wind power
jib (W)– 60m



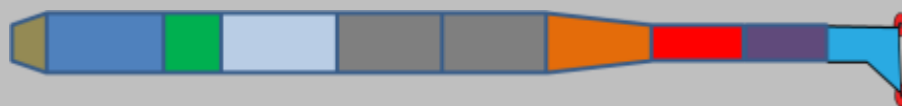
Wind power
jib (W)– 70m



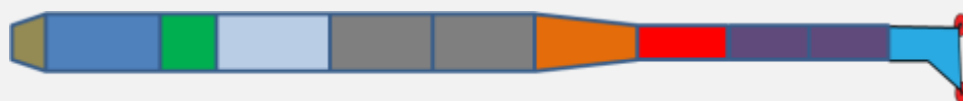
Wind power
jib (W)– 80m



Wind power
jib (W)– 90m



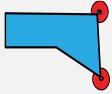






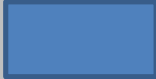

Wind power
jib (W)– 100m



Wind power
jib (W)– 110m





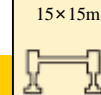





Boom / Jib combinations

Component	Structure	Size (L×W×H) mm	Weight kg
Wind power jib head		9380×2220×3680	6700
Connecting bracket assembly		3300×2730×2825	5800
Large extension		10260×2570×2875	4600
Small extension I		10260×2225×2560	4500
Small extension II		10260×2225×2370	4200
Wing-type connecting bracket		12145×3620×3740	15400
Transition section assembly		9260×2580×3040	4600
Transition section I		12310×2850×3085	9700
Transition section II		6230×2695×4035	5000

Lifting capacities




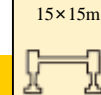


W 50m

	     						
	35.6	41.2	46.8	52.4	58.1	63.7	
9	275.0						9
10	265.4	275.0					10
12	260.4	266.0	275.0	275.0	275.0		12
14	260.0	261.7	263.4	267.4	270.6	275.0	14
16	258.4	261.0	261.6	266.3	269.7	275.0	16
18	255.4	257.6	261.6	264.0	265.6	269.0	18
20	253.2	256.0	260.0	262.4	260.0	257.0	20
22	251.4	249.8	248.2	246.5	243.6	235.1	22
24	230.4	228.5	226.7	225.9	222.9	220.5	24
26	212.2	211.3	209.2	207.2	205.1	205.5	26
28	196.6	195.6	193.4	191.2	190.1	189.1	28
30	182.5	181.3	179.0	177.8	175.4	175.4	30
32	169.7	168.4	167.1	165.8	163.4	162.1	32
34	159.3	157.9	155.5	154.0	151.5	151.2	34
36	149.0	147.6	146.1	143.6	142.1	140.5	36
38	139.9	138.5	135.9	134.3	132.8	131.4	38
40	131.0	129.5	127.9	126.3	124.7	122.4	40
42	122.2	120.5	118.8	117.1	115.4	113.4	42
44	115.2	113.9	112.2	110.5	108.8	105.3	44
46	108.0	107.1	105.3	103.9	102.1	99.0	46
48	101.7	100.8	99.0	98.1	95.6	91.8	48
50	95.4	94.5	93.6	91.8	90.0	86.4	50
52	90.0	89.1	87.3	86.4	84.6	81.0	52
54	84.6	83.7	82.8	81.0	79.2	75.6	54
56	80.1	79.2	78.3	76.5	74.7	71.1	56
58	75.6	74.7	73.8	72.0	70.2	66.6	58
60	72.0	71.1	69.3	68.4	66.6	62.1	60
62	67.5	66.6	65.7	63.9	62.1	58.5	62
64	63.9	63.0	62.1	60.3	58.5	54.9	64
66	60.3	59.4	58.5	56.7	55.4	51.3	66
68	57.6	56.7	54.9	54.0	52.2	48.6	68
70	54.0	53.1	52.2	51.1	49.1	45.0	70
72	51.3	50.4	49.5	47.7	45.9	42.3	72
n	2×9	2×9	2×9	2×9	2×9	2×9	n
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Lifting capacities




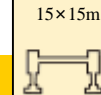


T 35.6-63.7m

W 50m

	 35.6	 41.2	 46.8	 52.4	 58.1	 63.7	
74	48.0	47.7	46.8	44.8	42.9	39.6	74
76	43.0	45.0	43.7	42.3	40.8	36.9	76
78	35.0	42.3	41.4	39.7	37.7	35.1	78
80	27.5	38.0	38.5	37.6	35.6	32.4	80
82	16.5	32.0	35.0	34.5	32.5	30.6	82
84		26.5	32.0	32.4	30.5	27.9	84
86		19.0	27.0	30.4	28.4	26.1	86
88			21.6	28.0	26.4	24.3	88
90			16.0	23.8	24.3	22.5	90
92				19.5	22.3	20.7	92
94				14.5	20.2	18.9	94
96					16.0	17.1	96
98					11.8	15.3	98
100						12.8	100
n	2×9	2×9	2×9	2×9	2×9	2×9	n
Code	0012	0022	0122	0222	1222	2222	Code




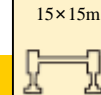


Lifting capacities

W 60m

	 35.6	 41.2	 46.8	 52.4	 58.1	 63.7	
10	260.0						10
12	260.0	260.0	260.0				12
14	260.0	260.0	260.0	260.0	260.0		14
16	260.0	260.0	260.0	260.0	260.0	255.0	16
18	260.0	260.0	260.0	260.0	260.0	255.0	18
20	260.0	260.0	259.6	256.5	254.4	249.1	20
22	241.8	239.7	237.5	235.4	233.2	235.0	22
24	222.9	220.6	218.4	216.1	213.7	220.2	24
26	205.5	204.2	201.8	199.4	197.0	203.2	26
28	190.6	189.2	186.8	185.3	182.8	186.9	28
30	178.1	176.6	174.1	172.6	170.0	173.2	30
32	165.8	164.3	162.7	160.1	158.5	161.0	32
34	155.7	154.1	151.5	149.9	147.1	150.1	34
36	145.8	144.2	142.5	140.8	138.1	140.5	36
38	137.0	135.3	133.6	131.9	129.2	131.1	38
40	129.4	127.6	125.9	124.2	121.4	122.9	40
42	121.8	120.0	118.3	116.5	113.7	114.3	42
44	115.3	113.5	111.7	109.9	107.1	107.1	44
46	108.8	107.0	105.2	103.4	101.6	99.9	46
48	102.4	101.6	99.8	98.0	95.1	93.6	48
50	97.0	96.3	94.4	92.6	89.7	87.3	50
52	91.7	90.9	89.1	87.2	85.3	81.9	52
54	86.4	85.5	83.7	81.9	80.0	76.5	54
56	81.9	81.0	79.2	77.4	75.6	72.0	56
58	77.4	76.5	74.7	72.9	71.1	67.5	58
60	73.8	72.0	71.1	69.3	67.2	63.0	60
62	69.3	68.4	66.6	65.7	63.9	59.4	62
64	65.7	64.8	63.0	62.1	59.8	55.8	64
66	62.1	61.2	59.4	58.5	56.6	52.2	66
68	59.4	58.5	56.7	54.9	53.1	49.5	68
70	55.8	54.9	54.0	52.2	50.3	46.8	70
72	53.1	52.2	50.4	49.1	47.2	43.2	72
74	50.4	49.5	47.7	46.0	44.1	40.5	74
n	2×8	2×8	2×8	2×8	2×8	2×8	n
Code	0012	0022	0122	0222	1222	2222	Code




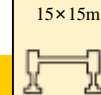


Lifting capacities

W 60m



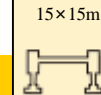




	 35.6	 41.2	 46.8	 52.4	 58.1	 63.7	
76	47.7	46.8	45.0	43.9	42.0	38.7	76
78	45.0	44.1	42.8	40.8	38.9	36.0	78
80	43.2	42.3	40.5	38.7	36.8	33.3	80
82	40.5	39.6	37.6	36.7	33.7	31.5	82
84	37.4	37.5	35.5	33.6	31.6	28.8	84
86	31.5	35.4	33.5	31.5	29.5	27.0	86
88	26.0	33.0	31.4	29.5	27.5	25.2	88
90	18.5	28.5	28.0	27.4	25.4	23.4	90
92		22.8	25.5	26.4	23.4	21.6	92
94		17.5	22.3	24.3	22.3	19.8	94
96		10.3	18.2	22.0	20.3	18.0	96
98			13.5	18.7	18.2	17.1	98
100				15.0	16.8	15.3	100
102				12.0	14.0	13.5	102
104					11.3	12.4	104
106						10.8	106
n	2×8	2×8	2×8	2×8	2×8	2×8	n
Code	0012	0022	0122	0222	1222	2222	Code

Lifting capacities

W 70m




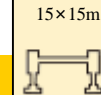


	 35.6	 41.2	 46.8	 52.4	 58.1	 63.7	
12	250.0						12
14	250.0	250.0	250.0				14
16	250.0	250.0	250.0	250.0	250.0		16
18	250.0	250.0	250.0	250.0	250.0	240.0	18
20	245.0	245.0	245.0	245.0	245.0	240.0	20
22	240.6	238.4	236.2	234.0	231.8	224.8	22
24	221.4	219.1	216.8	215.5	213.2	217.9	24
26	204.9	203.6	201.1	198.7	196.2	199.8	26
28	190.9	188.4	185.9	184.4	181.9	184.6	28
30	177.2	175.7	173.1	171.5	168.9	172.1	30
32	165.8	164.2	161.6	160.0	157.3	159.8	32
34	155.6	152.9	151.3	149.6	146.9	149.0	34
36	145.6	143.9	142.2	139.5	137.8	138.3	36
38	136.7	135.0	133.3	131.6	128.8	130.0	38
40	129.0	127.3	125.5	123.7	120.9	121.9	40
42	121.3	119.6	117.8	116.0	114.2	113.8	42
44	114.8	113.0	111.2	109.4	107.6	106.9	44
46	108.3	107.5	104.6	102.8	101.0	99.9	46
48	102.9	101.0	99.2	97.3	95.5	93.6	48
50	97.5	95.6	93.8	91.9	90.0	88.2	50
52	92.1	91.3	88.4	86.5	84.6	81.9	52
54	87.3	86.0	84.1	82.2	80.3	77.4	54
56	82.8	81.7	79.8	77.9	76.0	72.9	56
58	78.3	77.4	75.5	73.6	71.7	68.4	58
60	74.7	72.9	71.1	70.2	67.4	63.9	60
62	70.2	69.3	67.5	65.7	63.9	60.3	62
64	66.6	65.7	63.9	62.1	60.3	56.7	64
66	63.9	62.1	60.3	59.4	56.7	53.1	66
68	60.3	59.4	57.6	55.6	53.7	49.5	68
70	57.6	55.8	54.0	52.5	50.5	46.8	70
72	54.0	53.1	51.3	50.3	47.3	44.1	72
74	51.3	50.4	48.6	47.2	45.0	41.4	74
76	49.5	47.7	45.9	44.1	42.1	38.7	76
n	2×8	2×8	2×8	2×8	2×8	2×8	n
Code	0012	0022	0122	0222	1222	2222	Code

Lifting capacities

	 35.6-63.7m	 70m	 SL	 15×15m	 360°	 340t	
	35.6	41.2	46.8	52.4	58.1	63.7	
78	46.8	45.0	44.0	42.0	40.0	36.0	78
80	44.1	42.8	40.8	38.9	36.9	34.2	80
82	42.3	40.5	38.8	36.8	34.8	31.5	82
84	39.6	38.7	36.7	34.7	32.7	29.7	84
86	37.5	36.6	34.6	32.6	30.7	27.9	86
88	35.5	34.5	32.6	30.6	28.6	26.1	88
90	33.4	32.5	30.5	28.5	26.5	24.3	90
92	31.0	30.4	28.4	26.5	24.5	22.5	92
94	27.0	28.3	26.4	24.4	22.4	20.7	94
96	21.8	26.0	25.3	23.4	21.4	18.9	96
98	17.0	23.0	23.3	21.3	19.3	17.1	98
100	11.0	18.8	21.0	20.3	17.3	16.2	100
102		15.2	17.6	18.2	16.2	14.4	102
104		10.0	13.7	16.0	14.2	13.4	104
106			10.5	14.0	13.2	11.4	106
108				11.0	12.2	10.3	108
110					10.0		110
n	2×8	2×8	2×8	2×8	2×8	2×8	n
Code	0012	0022	0122	0222	1222	2222	Code

Lifting capacities




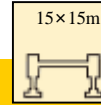

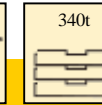


W 80m

	 35.6-63.7m	 80m	 SL	 15×15m	 360°	 340t	
	35.6	41.2	46.8	52.4	58.1	63.7	
12	235.0						12
14	235.0	235.0					14
16	235.0	235.0	235.0				16
18	235.0	235.0	235.0	235.0	235.0		18
20	235.0	235.0	235.0	235.0	235.0	225.0	20
22	235.0	235.0	233.8	231.5	229.2	223.0	22
24	219.9	217.5	215.2	213.9	211.5	214.4	24
26	203.1	201.8	199.3	196.8	194.3	197.6	26
28	189.0	187.5	185.0	182.4	180.9	182.4	28
30	176.2	174.6	172.0	170.5	167.8	168.7	30
32	164.7	163.1	160.4	158.8	156.1	157.6	32
34	154.4	152.8	150.0	148.4	145.6	146.8	34
36	144.3	142.6	140.9	139.2	136.4	137.2	36
38	136.4	134.7	131.9	130.1	128.4	127.8	38
40	128.6	126.8	124.0	122.2	120.4	119.7	40
42	120.9	119.1	117.3	115.5	112.6	112.7	42
44	114.3	112.5	110.7	108.8	105.9	105.8	44
46	107.7	105.9	104.1	102.2	100.4	99.0	46
48	102.3	100.4	98.6	96.7	94.8	93.4	48
50	96.9	95.0	93.1	91.3	89.4	87.8	50
52	91.5	90.6	87.7	85.8	83.9	82.2	52
54	87.2	85.3	83.4	81.5	79.6	77.4	54
56	82.9	81.0	79.1	77.2	75.2	72.9	56
58	78.6	76.7	74.8	72.9	70.9	68.4	58
60	74.4	72.9	71.6	69.6	66.6	63.9	60
62	71.1	69.2	67.3	65.4	63.4	60.3	62
64	67.5	65.7	63.9	62.1	60.2	56.7	64
66	63.9	62.1	60.3	59.0	57.0	53.1	66
68	60.3	59.4	57.6	55.8	53.8	49.5	68
70	57.6	55.8	54.6	52.6	50.7	46.8	70
72	54.9	53.1	51.3	49.5	47.5	44.1	72
74	52.2	50.4	48.6	47.4	44.3	41.4	74
76	49.5	47.7	46.2	44.2	42.2	38.7	76
n	2×7	2×7	2×7	2×7	2×7	2×7	n
Code	0012	0022	0122	0222	1222	2222	Code

Lifting capacities

T 35.6-63.7m




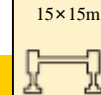









W 80m

	 35.6-63.7m	 80m	 SL	 15×15m	 360°	 340t	
	35.6	41.2	46.8	52.4	58.1	63.7	
78	46.8	45.9	44.1	42.1	39.1	36.0	78
80	44.9	43.0	41.0	39.0	37.0	34.2	80
82	42.3	40.9	38.9	36.9	34.9	31.5	82
84	40.5	38.7	36.8	34.8	32.8	29.7	84
86	37.7	36.7	34.7	32.7	30.8	27.9	86
88	35.6	34.6	32.7	30.7	28.7	26.1	88
90	34.2	32.6	30.6	28.6	26.6	24.3	90
92	32.4	30.5	28.5	26.5	24.5	22.5	92
94	30.4	28.5	26.5	24.5	22.5	20.7	94
96	28.4	27.4	25.4	23.4	21.4	18.9	96
98	27.3	25.4	23.4	21.4	19.4	17.6	98
100	24.8	23.3	21.3	20.3	17.3	16.2	100
102	20.7	22.3	20.3	18.3	16.3	14.4	102
104	17.6	20.0	18.2	17.3	14.2	13.4	104
106	14.5	18.0	17.2	15.2	13.2	11.4	106
108	10.0	15.0	15.0	14.2	12.2	10.3	108
110		11.0	12.0	12.2	10.2		110
112				11.0			112
n	2×7	2×7	2×7	2×7	2×7	2×7	n
Code	0012	0022	0122	0222	1222	2222	Code

Lifting capacities




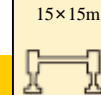




T 35.6-63.7m

W 90m

	 35.6-63.7m	 90m	 SL	 15×15m	 360°	 340t	
	 35.6	 41.2	 46.8	 52.4	 58.1	 63.7	 90m
14	220.0						14
16	220.0	220.0					16
18	220.0	220.0	220.0				18
20	220.0	220.0	220.0	220.0	220.0		20
22	220.0	220.0	220.0	220.0	220.0	210.0	22
24	218.0	215.9	213.5	211.0	208.6	210.0	24
26	201.3	199.9	197.4	194.9	193.5	196.2	26
28	187.0	185.5	182.9	181.4	178.8	178.1	28
30	174.0	172.5	170.9	168.2	165.6	164.2	30
32	163.5	160.8	159.2	157.5	154.8	152.3	32
34	153.1	150.4	148.7	147.0	144.2	142.8	34
36	142.9	141.2	139.5	137.8	134.9	133.5	36
38	135.0	133.2	130.4	128.6	126.9	124.3	38
40	127.1	125.3	123.6	120.7	118.9	116.3	40
42	119.3	117.5	115.7	113.9	112.1	109.4	42
44	112.7	110.9	109.0	107.2	105.3	102.7	44
46	107.2	105.3	103.5	101.6	98.7	97.1	46
48	101.7	99.8	97.9	96.1	93.1	91.5	48
50	96.2	94.4	92.5	90.6	87.6	86.0	50
52	90.8	88.9	87.0	85.1	83.2	80.5	52
54	86.5	84.6	82.7	80.7	78.8	76.1	54
56	82.2	80.3	78.3	76.4	74.5	71.7	56
58	77.9	76.0	74.0	72.1	70.1	67.4	58
60	73.6	72.7	70.8	68.8	65.8	63.9	60
62	70.4	68.5	66.5	64.6	62.6	59.8	62
64	67.2	65.2	63.3	61.3	59.4	56.6	64
66	63.9	62.1	60.1	58.1	56.2	53.1	66
68	60.3	58.9	56.9	54.9	53.0	49.5	68
70	57.6	55.7	53.7	51.8	49.8	46.8	70
72	54.5	53.1	51.3	49.5	46.6	44.1	72
74	52.2	50.4	48.5	46.5	44.5	41.4	74
76	49.3	47.7	45.9	44.4	41.3	38.7	76
78	46.8	45.2	43.2	41.2	39.2	36.0	78
n	2×7	2×7	2×7	2×7	2×7	2×7	n
Code	0012	0022	0122	0222	1222	2222	Code





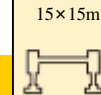



Lifting capacities

W 90m

	 35.6-63.7m	 90m	 SL	 15×15m	 360°	 340t	
	35.6	41.2	46.8	52.4	58.1	63.7	
80	45.0	43.1	41.1	39.1	36.1	34.2	80
82	41.9	41.0	39.0	37.0	34.0	31.5	82
84	39.9	37.9	35.9	33.9	31.9	29.7	84
86	37.8	35.8	33.8	31.8	29.8	27.9	86
88	35.7	33.7	31.7	29.7	27.7	25.9	88
90	33.6	32.7	30.7	28.7	25.7	23.8	90
92	31.6	30.6	28.6	26.6	24.6	22.5	92
94	30.5	28.5	26.5	24.5	22.5	20.7	94
96	28.5	26.5	24.5	22.5	20.5	18.6	96
98	26.4	25.4	23.4	21.4	19.4	17.1	98
100	25.4	23.4	21.4	19.4	17.4	15.5	100
102	23.3	22.4	20.4	18.3	16.3	14.4	102
104	22.3	20.3	18.3	16.3	14.3	12.4	104
106	20.0	19.3	17.3	15.3	13.3	11.3	106
108	18.8	17.2	15.2	14.2	11.2		108
110	15.8	16.2	14.2	12.2	10.2		110
112	12.7	15.2	13.2	11.2			112
114	10.0	13.0	11.0	10.1			114
116		10.0					116
n	2×7	2×7	2×7	2×7	2×7	2×7	n
Code	0012	0022	0122	0222	1222	2222	Code

Lifting capacities




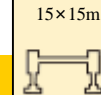




W 100m

	     						
	35.6	41.2	46.8	52.4	58.1	63.7	
16	196.2						16
18	192.0	198.1	201.7				18
20	188.6	194.0	197.6	192.9			20
22	186.0	191.6	194.3	191.0	197.9		22
24	181.9	189.5	191.9	189.0	196.0	180.0	24
26	179.8	187.4	187.7	187.0	191.5	180.0	26
28	177.6	183.5	181.9	179.3	177.7	175.3	28
30	173.0	171.4	168.7	167.1	164.4	163.0	30
32	161.2	159.6	157.9	155.2	153.5	151.0	32
34	151.9	149.1	147.4	145.7	142.9	141.4	34
36	141.6	139.8	138.1	136.3	133.5	132.0	36
38	133.5	131.8	130.0	128.2	125.3	123.8	38
40	125.6	123.8	122.0	120.2	117.3	115.7	40
42	118.9	117.0	115.2	113.4	110.5	108.8	42
44	112.2	110.3	108.5	106.6	103.7	102.0	44
46	105.5	104.7	101.8	99.9	98.0	95.3	46
48	100.0	98.1	96.2	94.3	92.4	89.7	48
50	94.5	93.7	90.7	88.8	86.9	85.2	50
52	90.1	88.2	86.3	84.4	82.5	79.7	52
54	85.8	83.9	81.9	80.0	78.1	75.3	54
56	81.4	79.5	77.6	75.6	73.7	70.9	56
58	77.1	75.2	73.2	71.3	69.3	66.5	58
60	72.8	71.9	70.0	68.0	65.0	63.3	60
62	69.6	67.7	65.7	63.7	61.8	58.9	62
64	66.4	64.4	62.5	60.5	58.5	55.7	64
66	63.2	61.2	59.3	57.3	55.3	52.5	66
68	60.0	58.0	56.1	54.1	52.1	49.3	68
70	56.8	54.8	52.9	51.9	48.9	46.1	70
72	54.7	52.7	50.7	48.7	46.8	43.2	72
74	51.5	49.6	47.6	45.6	43.6	40.5	74
76	49.4	47.4	45.4	43.5	41.5	38.6	76
78	46.3	45.0	43.2	41.3	38.3	36.0	78
80	44.1	42.2	40.2	38.2	36.2	33.3	80
n	2×6	2×6	2×6	2×6	2×6	2×6	n
Code	0012	0022	0122	0222	1222	2222	Code




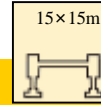

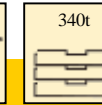
Lifting capacities

T 35.6-63.7m

W 100m

	 35.6-63.7m	 100m	 SL	 15×15m	 360°	 340t	
	35.6	41.2	46.8	52.4	58.1	63.7	
82	42.1	40.1	38.1	36.1	34.1	31.2	82
84	40.0	38.0	36.0	34.0	32.0	29.1	84
86	37.8	35.9	33.9	31.9	29.9	27.0	86
88	35.8	33.8	31.8	29.8	27.8	24.9	88
90	33.7	31.7	29.7	27.7	25.7	23.4	90
92	31.7	29.7	27.7	25.7	23.6	21.6	92
94	29.6	28.6	26.6	24.6	21.6	19.7	94
96	28.6	26.6	24.6	22.5	20.5	18.6	96
98	26.5	24.5	22.5	20.5	18.5	16.5	98
100	25.5	23.5	21.4	19.4	17.4	15.3	100
102	23.4	21.4	19.4	17.4	15.4	13.4	102
104	22.4	20.4	18.4	16.3	14.3	12.4	104
106	20.3	19.3	17.3	15.3	12.3	10.3	106
108	19.3	17.3	15.3	13.3	11.2		108
110	18.3	16.3	14.2	12.2	10.2		110
112	16.2	15.2	13.2	11.2			112
114	15.0	13.2	11.2				114
116	14.2	12.2	10.2				116
118	11.6	11.1					118
120	10.0	10.0					120
n	2×6	2×6	2×6	2×6	2×6	2×6	n
Code	0012	0022	0122	0222	1222	2222	Code

Lifting capacities

	 35.6	 41.2	 46.8	 52.4	 58.1	 63.7	
18	166.0	168.7					18
20	162.8	165.5	168.0				20
22	159.6	162.3	165.9	163.8			22
24	156.3	159.6	162.8	160.7	168.5		24
26	152.9	157.1	160.5	157.7	165.9	160.0	26
28	149.6	153.9	158.4	155.6	163.9	155.0	28
30	146.9	151.8	155.7	153.5	162.9	153.6	30
32	144.1	149.5	152.7	151.4	152.2	149.6	32
34	141.1	147.3	146.0	144.3	141.5	139.9	34
36	138.8	138.4	136.7	134.9	132.0	130.4	36
38	132.1	130.3	128.5	126.7	123.8	122.2	38
40	124.1	122.3	120.5	118.6	116.8	114.1	40
42	117.3	115.4	113.6	111.7	109.9	107.2	42
44	110.5	108.7	106.8	104.9	103.1	100.3	44
46	104.9	103.1	101.2	99.3	97.4	94.6	46
48	99.4	97.5	95.6	93.7	91.8	89.0	48
50	93.9	92.0	90.0	88.1	86.2	83.4	50
52	89.4	87.5	85.6	83.7	80.7	78.9	52
54	84.0	83.1	81.2	79.2	76.2	74.5	54
56	79.6	78.8	76.8	74.9	71.8	70.1	56
58	76.4	74.4	72.5	70.5	68.5	65.7	58
60	72.0	70.1	68.1	66.2	64.2	61.3	60
62	68.8	66.8	64.9	62.9	60.9	58.1	62
64	65.6	63.6	61.6	59.7	57.7	54.8	64
66	62.4	60.4	58.4	56.4	54.4	51.6	66
68	59.2	57.2	55.2	53.2	51.2	48.3	68
70	56.0	54.0	52.0	51.0	48.0	45.1	70
72	53.8	51.8	49.9	47.9	45.9	43.0	72
74	50.7	48.7	46.7	45.7	42.7	39.8	74
76	48.5	46.5	44.5	42.5	40.5	37.6	76
78	45.4	44.4	42.4	40.4	38.4	35.1	78
80	43.3	42.3	40.3	38.3	35.3	32.3	80
82	41.2	39.2	37.2	35.2	33.1	30.2	82
倍率n	2×5	2×5	2×5	2×5	2×5	2×5	倍率n
组合Code	0012	0022	0122	0222	1222	2222	组合Code

Lifting capacities

T 35.6-63.7m

W 110m




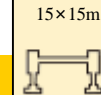




	 35.6-63.7m	 110m	 SL	 15×15m	 360°	 340t	
	35.6	41.2	46.8	52.4	58.1	63.7	
84	39.1	37.1	35.1	33.1	31.0	28.1	84
86	37.0	35.0	33.0	31.0	28.9	26.0	86
88	34.9	32.9	30.9	28.9	26.8	24.9	88
90	32.8	31.8	29.8	27.8	24.8	22.8	90
92	31.8	29.8	27.7	25.7	23.7	20.8	92
94	29.7	27.7	25.7	23.6	21.6	18.7	94
96	27.6	25.6	23.6	21.6	19.5	17.6	96
98	26.6	24.6	22.5	20.5	18.5	15.5	98
100	24.5	22.5	20.5	18.5	16.4	14.5	100
102	23.5	21.5	19.4	17.4	15.4	12.4	102
104	21.4	19.4	17.4	15.4	13.3	11.4	104
106	20.4	18.4	16.3	14.3	12.3	10.3	106
108	18.3	17.3	15.3	13.3	11.3		108
110	17.3	15.3	13.3	11.2			110
112	16.3	14.3	12.2	10.2			112
114	15.2	13.2	11.2				114
116	13.2	12.2	10.2				116
118	12.2	11.2					118
120	11.1						120
122	10.1						122
n	2×5	2×5	2×5	2×5	2×5	2×5	n
Code	0012	0022	0122	0222	1222	2222	Code


Table of main technical parameters

Category	Item	Unit	Parameter				
Dimensions	Dimensions (length × width × height)	mm	26894×3500×6548				
	Wheel base	mm	1750+2450+2135+1750+3320+1750+3320+1750+1750				
	Track (Front/ Rear)	mm	505/95R25 (18.00R25)	2955			
			525/80R25 (20.5R25)	2955			
	Front/ Rear overhang	mm	2780/1770				
Front/ Rear extension	mm	0/0					
Weight	Total vehicle mass in travel configuration	kg	75000	125000	192000	317000	
	Axle load	1st axle	kg	8300	11700	19400	32600
		2nd axle	kg	8300	11700	19400	32600
		3rd axle	kg	8300	11700	19400	32600
		4th axle	kg	8300	11700	19400	32600
		5th axle	kg	8300	11700	19400	32600
		6th axle	kg	6700	13300	19000	30800
		7th axle	kg	6700	13300	19000	30800
		8th axle	kg	6700	13300	19000	30800
		9th axle	kg	6700	13300	19000	30800
10th axle	kg	6700	13300	19000	30800		
Power	Engine model	—	WP17G770E304				
	Engine rated power/rpm	kW/(r/min)	566/1900				
	Max. net power/rpm	kW/(r/min)	566/1900				
	Max. output torque/rpm	N.m/(r/min)	3000N.m / (1200~1500) rpm				
Travel	Max. travel speed	km/h	80				
	Min. stable travel speed	km/h	2				
	Min. turning diameter	m	37				
	Min. ground clearance	mm	430/ 505/95R25 380/ 525/80R25 uspensions are partially elevated				
	Approach angle	°	17 (505/95R25) / 16 (525/80R25)				
	Departure angle	°	47 (505/95R25) / 44 (525/80R25)				
	Braking distance (at 30 km/h)	m	≤10				
	Max. grade ability	%	60	60	36	20	
	Fuel consumption per 100 km	L	110				

Table of main technical parameters

Category	Item		Unit	Parameter	
Main performance	Max. total rated lifting capacity		t	500	
	Min. rated working radius		m	3	
	Turning radius at turntable tail		mm	8660	
	Max. load moment	Base boom		kN.m	50960
		Fully-extended boom		kN.m	26280
		Fully-extended boom + Jib		kN.m	46914
	Outrigger span	Longitudinal		m	15
		Lateral		m	15
	Lifting height	Base boom		m	19
		Fully-extended boom		m	68
		Fully-extended boom + Jib		m	173
	Boom (+jib) length	Base boom		m	19.8
Fully-extended boom		m	68.6		
Fully-extended boom + Jib		m	173.7		
Working speed	Time for raising the boom		s	≤350	
	Time for fully extending the boom		s	≤1800	
	Max. slewing speed		r/min	0.8	
	Time for extending and retracting the outrigger	Outrigger beam	Retracting	s	≤60
			Extending	s	≤60
		Outrigger jack	Retracting	s	≤200
			Extending	s	≤200
Hoisting speed (single line, 11th layer, no load)	Main winch		m/min	≥135	
Noise	Exterior noise level		dB (A)	≤112	
	Noise level at seated position		dB (A)	≤85	

Description of symbols

	Superstructure		Chassis
	Lifting capacity		Axle
	Boom length		Driving speed
	Radius		Grade ability
	Boom angle		Tires
	Hoist height with boom		Outriggers
	Fixed jib length		Hook block
	Jib offset angle		Counterweight
	Hoist height with jib		Winch
	Independent jib head / Wind power jib		360° operation of the boom
	Luffing jib		Super lifting device

Notes

1. This manual is intended as reference only. See Operation Manual and Rated Lifting Capacity Manual for correct operation instructions.
2. The total rated loads given in the rated load charts are the maximum lifting capacity (in tonne) under corresponding boom length and working radius when the crane is set up on firm and level ground. The total rated load includes the weight of the hook block and slings. The weight of above-mentioned devices should be deducted from the rated lifting load.
3. The working radius shown in the rated load charts is the horizontal distance between the load and slewing axis of crane when the load is lifted off the ground.
4. Do not extend the boom into areas of the load chart where the crane does not have capacity beyond the angles shown in the range diagrams, or tipping may occur.
5. A lifting operation is permissible only when the wind force is below grade 5 (instantaneous wind speed is 14.1 m/s, wind pressure is 125 N/m²).



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