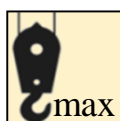


XCA110U

All Terrain Crane

Technical Specifications



110USt



196.9ft



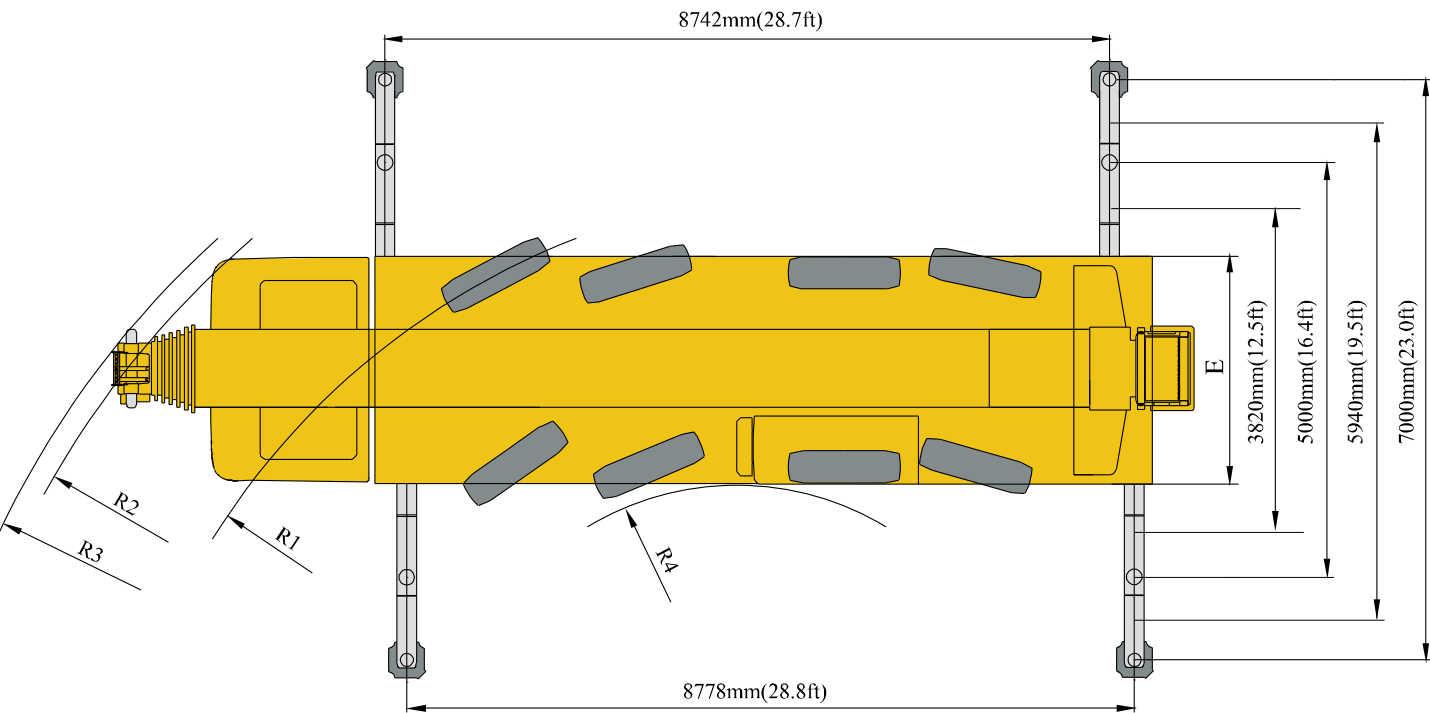
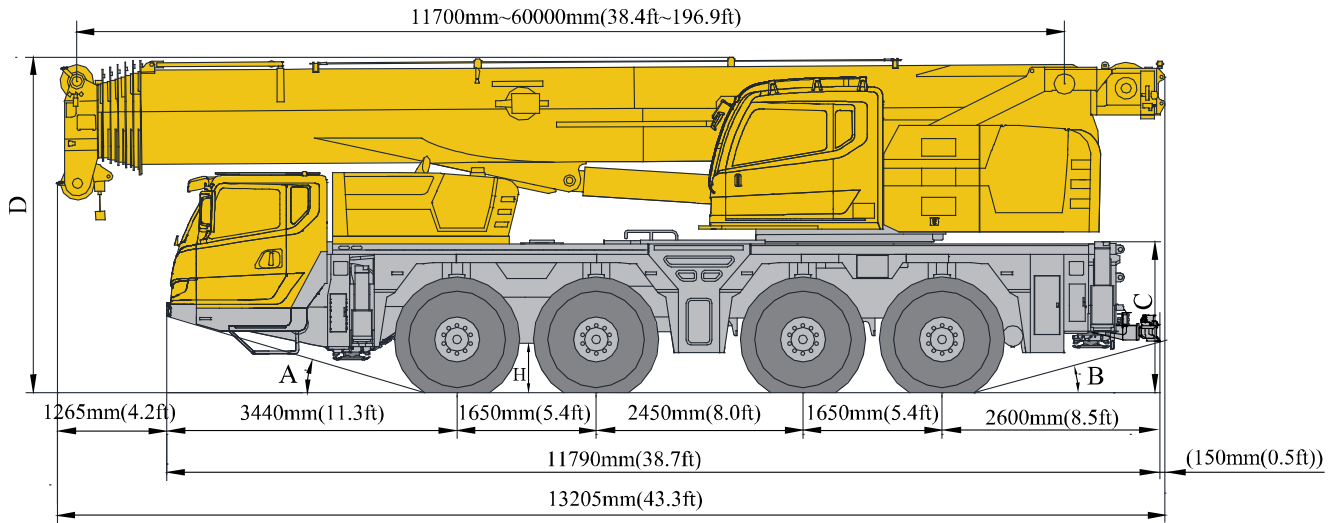
288.7ft



Content

Content	
Dimensions	4
Weight	5-7
Product Specifications	8-11
Weight / Working speeds	12
Transportation components dimension	13
Counterweight	14
Boom / Jib combinations	15-16
Boom	17-21
Boom + Jib	22-26
Boom + Independent jib head	27-31
Table of Main Technical Parameters	32-33
Description of symbols	34
Notes	35

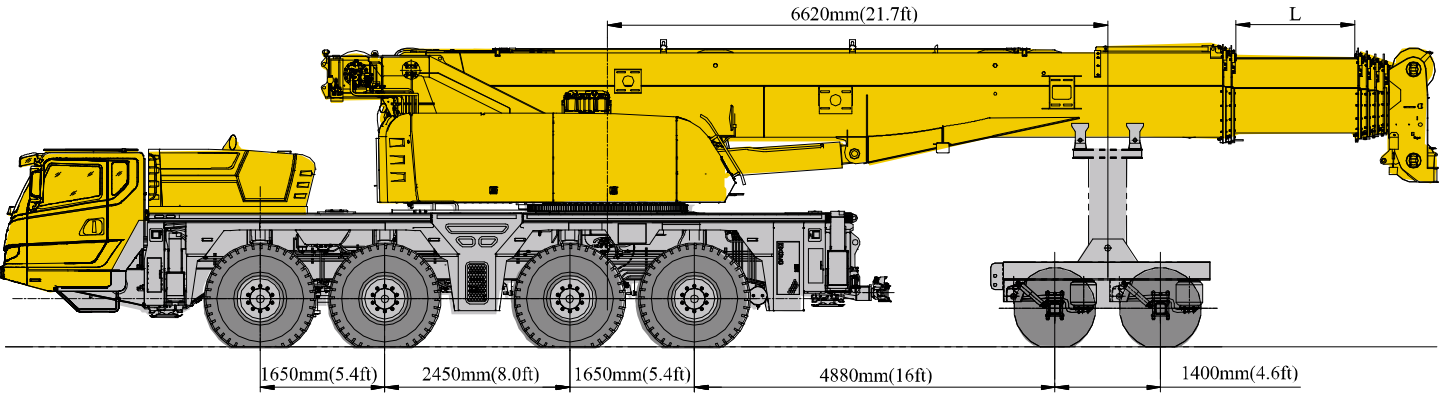
Dimensions



	A	B	C	D	E	H	R1	R2	R3	R4
385/95 R 25 (14.00 R 25)	16°	13.5°	1800mm (5.9ft)	4000mm (13.1ft)	2750mm (9.0ft)	350mm (1.1ft)	7900mm (25.9ft)	9950mm (32.6ft)	10255mm (33.6ft)	4530mm (14.9ft)
445/95 R 25 (16.00 R 25)	17°	14.5°	1850mm (6.1ft)	4050mm (13.3ft)	2750mm (9.0ft)	400mm (1.3ft)	9350mm (30.7ft)	11250mm (36.9ft)	11300mm (37.1ft)	6110mm (20.0ft)
525/80 R25 (20.5 R25)	17°	14.5°	1850mm (6.1ft)	4050mm (13.3ft)	2900mm (9.5ft)	400mm (1.3ft)	9950mm (32.6ft)	11750mm (38.5ft)	11800mm (38.7ft)	6660mm (21.9ft)


Note: The stroke of suspension cylinder : -150mm ~ +150mm (-0.5ft~0.5ft) .

Weights



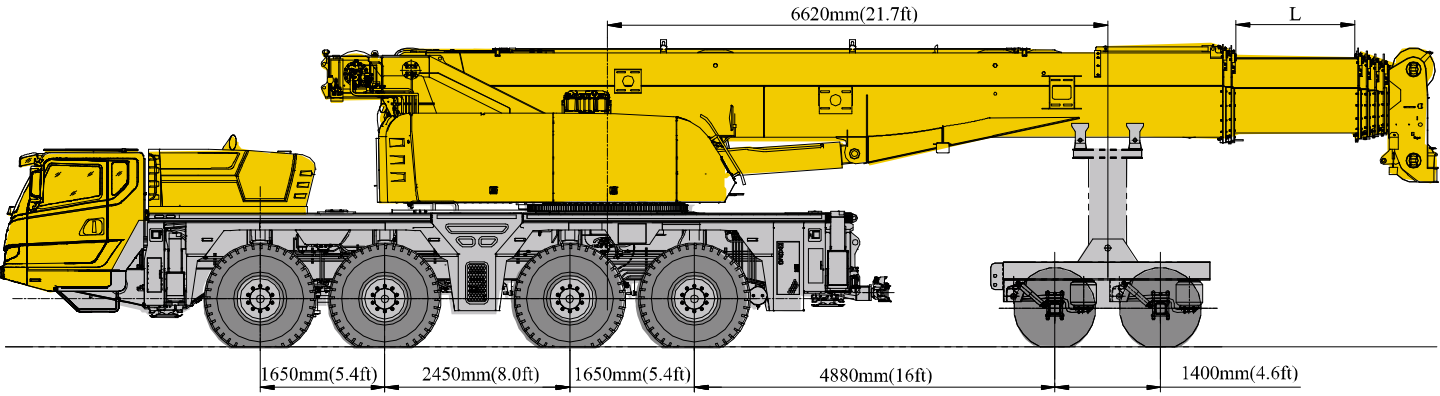
Roadway

Configuration: with four foot plates, rear traction hook, the rest is not.

 (lbs) State of Axle Load	385/95R25 (14.00R25)			445/95R25 (16.00R25)			525/80R25 (20.5 R25)			L	Boom State
	1, 2 Axle	3, 4 Axle	Dolly	1, 2 Axle	3, 4 Axle	Dolly	1, 2 Axle	3, 4 Axle	Dolly		
(9,080kg) 20,000 lb	(8,777 kg) 19,350 lb	(7,261 kg) 16,008 lb	(8,893 kg) 19,606 lb	(8,910 kg) 19,643 lb	(7,394 kg) 16,301 lb	(8,893 kg) 19,606 lb	(9,069 kg) 19,994 lb	(7,552 kg) 16,649 lb	(8,893 kg) 19,606 lb	3.7m (12.1ft)	2-7 boom rear extension 46%


Note: the above are theoretical values, axle load may vary with the actual configuration of boom dolly.

Weights



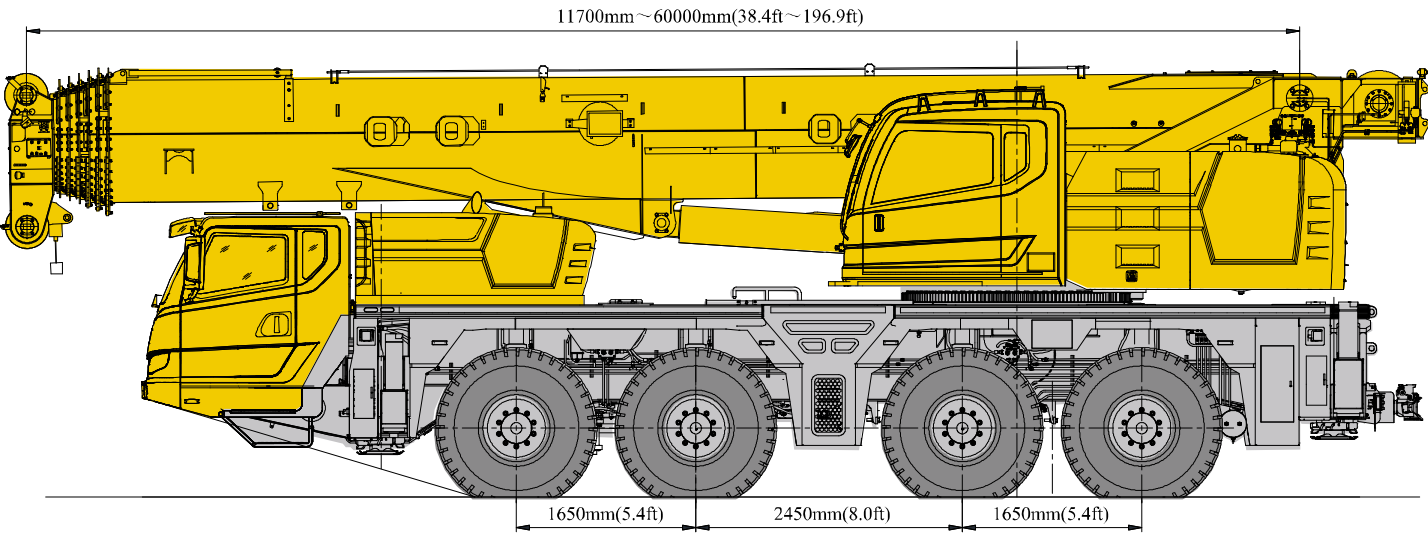
Roadway

Configuration: With four foot plates, rear traction hook, secondary arm and secondary lifting mechanism, the rest is not.


 (lbs) State of Axle Load	385/95R25 (14.00R25)			445/95R25 (16.00R25)			525/80R25 (20.5 R25)			L	Boom State
	1, 2 Axle	3, 4 Axle	Dolly	1, 2 Axle	3, 4 Axle	Dolly	1, 2 Axle	3, 4 Axle	Dolly		
(9,980kg) 22,000lb	(9,063 kg) 19,980 lb	(8,784 kg) 19,365 lb	(8,967 kg) 19,769 lb	(9,196 kg) 20,274lb	(8,917 kg) 19,659 lb	(8,967 kg) 19,769 lb	(9,354 kg) 20,622 lb	(9,076 kg) 20,009 lb	(8,967 kg) 19,769 lb	3.7m (12.1ft)	4-7 boom rear extension 46%

Note: the above are theoretical values, axle load may vary with the actual configuration of boom dolly.

Weights



Non-Road Driving Conditions

 State of Axle Load	1、 2 Axle	3、 4 Axle	Total
Basic configuration: With 385/95R25 tires, with four foot plates and rear traction hooks, the rest is not.	(12,000 kg) 26,455 lbs	(11,700 kg) 25,794 lbs	(47,400 kg) 104,500 lbs
*If equipped with option(s) add:			
445/95R25(16.00R25)	(+133 kg) 293 lbs	(+133 kg) 293 lbs	(+532 kg) +1,173 lbs
525/80R25(20.5 R25)	(+292 kg) +644lbs	(+292 kg) +644 lbs	(+1,168 kg) +2,575 lbs
Auxiliary lifting arm, auxiliary lifting mechanism & hose reel.	(13,000 kg) 28,660 lbs	(12,600 kg) 27,778 lbs	(51,200 kg) 112,877 lbs
Auxiliary lifting arm, auxiliary lifting mechanism, hose reel & 4.3t balance weight.	(15,100 kg) 33,290 lbs	(12,650 kg) 27,888 lbs	(55,500 kg) 122,356 lbs
Auxiliary lifting arm, auxiliary lifting mechanism, hose reel & 9.1t counterweight.	(17,350 kg) 38,250lbs	(12,800 kg) 28,219 lbs	(60,300 kg) (132,939 lbs

Note: the above are theoretical values, axle load may vary with the actual configuration.

Technical Specifications



Chassis

Frame	Designed and manufactured by XCMG. It is made of high strength steel and has anti-torsion box structure.
Outrigger	4 outriggers, H-shaped arrangement, one-stage outrigger beam, hydraulic extension cylinders and jack cylinders. Both sides of the chassis are equipped with electrical outrigger control panels, luminous level gauges, working lamps and acceleration buttons. Push-pull outrigger floats with five working positions are available, such as fully retracted, 25% extended, 50% extended, 75% extended and fully extended. Outriggers are equipped with pressure detection device, which improves the safety of outrigger operation.
Engine	OM471LA, in-line six-cylinder water-cooled EFI diesel engine, manufactured by Daimler, rated power 340kw(456bhp) / 1700 rpm, max. torque 2200Nm(1623lb-ft) /1300 rpm, Stage IV/ Tier4F emission standards. Fuel tank capacity : 300L(79gal).
Hydraulic system	Load sensitive proportional control system. The hydraulic pump is connected to the engine through PTO for controlling the movements of outriggers and suspensions.
Gearbox	Germany ZF electronic control mechanical transmission, with 12-forward speed, 2-reverse speed. Automatic or manual operations of transmission is selectable.
Transfer case	Mechanical transfer box is originally imported from KESSLER Germany, equipped with an emergency steering oil pump, which is used to supply steering power while the vehicle is towed after losing power.
Axles	Germany KESSLER high strength axles, excellent comprehensive performance, equipped with pneumatically controlled drum brake
Suspension	Hydro-pneumatic suspension is adopted for all axles, providing good shock absorbing effect. Functions of automatic leveling, suspension lifting, elastic/rigid state switch-over, etc. are available. The stroke of suspension cylinder : -150mm ~ +150mm (-0.5ft~0.5ft) .
Tires	8 tires, each axle is equipped with single tire, manufactured by Michelin, large bearing capacity. Tire specifications: 385/95R25(14.00R25).

Brakes	Service brake: double-circuit air pressure brake, acting on all wheels. Parking brake: spring energy brake, acting on wheels of 1, 3, 4 axles. Auxiliary brake: engine brake, transmission retarded brake.
Steering	All axles steering, advanced electro-hydraulic proportional steering control is suitable for various demands of working conditions, some steering modes followed may be realized.
Driver's cab	New type steel structure full dimension cab with suspension connecting structure, and there is shock absorb fitted at the rear of the cab, equipped with adjustable seats, safety glass of electrically operated door window lift , electric-adjustable mirrors, steering wheel adjustable in height and angle, reverse displayer, large screen liquid crystal display. Combined control panel reasonably arranged ergonomically designed concept. Heater and air conditioner are standard.
Electrical System	DC 24 volts is in series with two 12-volt battery packs.



Superstructure

Frame	Designed and manufactured by XCMG, made of high-strength steel.
Superstructure engine	OM934LA, in-line four-cylinder water-cooled EFI diesel engine, manufactured by Benz, rated power 175bhp / 2200 rpm, max. torque 553lb-ft/ 1200 ~ 1600 rpm, Stage IV/Tier4F emission standards. Fuel tank capacity : 300L(79gal).
Hydraulic system	Load sensitive piston pump driven by superstructure engine, used for hoisting, elevating, telescoping and slewing operation. Imported electro-hydraulic direction valve, matching perfectly stably. Large power Air-cooled hydraulic oil cooler, which may effectively reduce the temperature of oil in the system.
Operating mode	Variable continuous speed regulation. Electric proportional pilot control of all operation of hydraulic pump and proportional valve to control the crane by 2 control handle.
Main winch system	Hydraulic controlled speed regulation, with groove drum equipped, driven by hydraulic variable motor through planetary gear reducer, and with built-in constant closed brake, equipped with imported wire rope and pouch socket.

Technical Specifications

Slewing system	Single-row ball external tooth slewing ring and driven by a hydraulic motor, with a planetary gear reducer and a normally closed brake equipped, for 360° continuous rotation. Power control and free slewing function as well as stepless speed regulation are available.
Operator's cab	The cab is ergonomically designed for safety and comfort. It has an swing-out door, a adjustable seat and equipped with safety glass and top protective rails. The cab can be tilted up to 20°. Heating & air conditioner are available.
Safety devices	Hydraulic balance valve, Hydraulic relief valve, LMI. Spring centering system for control levers. Lowering limiter for preventing wire rope from over-releasing. Anti-two block at boom head for preventing wire rope from over-winding. Anemometer for measuring the wind velocity.
LMI	The safety protection device is installed in operator's cab. When actual moment approaches overload value, it may send out visual alarm, and automatically stop dangerous movements before overloading. Overload memory function (black box) and fault self-diagnosis function are available.
Combined counterweight	Total weight is 28.7t(31.6ust). 5 counterweight combinations of 0t(0ust), 4.3t(4.7ust), 9.1t(10ust), 14.7t(16.2ust), 19.7t(21.7ust), 21.5t(23.7ust), and 28.7t(31.6ust) are available.
Electrical System	DC 24 volts is in series with two 12-volt battery packs.



Boom system

Boom	7-section, U-shape cross section, welding structure. Single-cylinder pinning interlocked telescoping system, 46%, 92% and 100% telescoping pattern are available. Boom length: 11.7m(38.4ft) ~ 60m(196.9ft).
Single top	Fitted at boom head, used for single line operation. Its lifting performance is the same as that for boom, but the maximum lifting load does not exceed 6.5t(7.2ust).

Additional equipment

Auxiliary winch system	Hydraulic controlled speed regulation, with groove drum equipped, driven by hydraulic variable motor through planetary gear reducer, and with built-in constant closed brake, equipped with imported wire rope and pouch socket.
Fixed jib	Lattice welding structure, with 0° , 15° and 30° jib offset angles available. Jib length: 10.6m(34.8ft), 18.1m(59.4ft). A device for continuous luffing of jib
Extended jib	Two insets each 7 m(23ft)
Independent jib head	2.9m(9.5ft), may be installed on the tip of boom for lifting operations.
Tires	9 tires, each axle is equipped with single tire, manufactured by Michelin, large bearing capacity. Tire specifications: 445/95R25(16.00R25) and 525/80R25(20.5R25).
Combined counterweight Hook(20t)	Combined counterweight on both sides, 3.6t(4ust)*2 No 3. of lines, Single hook
360° slewing lock	Hydraulic drive , Superstructure can within the scope of 360° rotating relative chassis unlock and fixed.

Product parts details As mentioned above, please refer to the product quotation for specific parts.




Weights








Hook	No. of lines	Weight	Dimension	Remarks
65 t (71.6ust)	12	645kg (1,422lb)	1477×600×608mm (4.8×2.0×2.0ft)	Double hook, Standard
40 t (44.1ust)	6	391kg (8,62lb)	1301×600×352mm (1.3×2.0×1.2ft)	Double hook, Standard
20 t (22ust)	3	270kg (5,95lb)	1279×266×595mm (4.2×0.9×2.0ft)	Single hook, Optional
7 t (7.7ust)	1	223kg (4,92lb)	770×426×426mm (2.5×1.4×1.4ft)	Single hook, Standard

Working Speeds



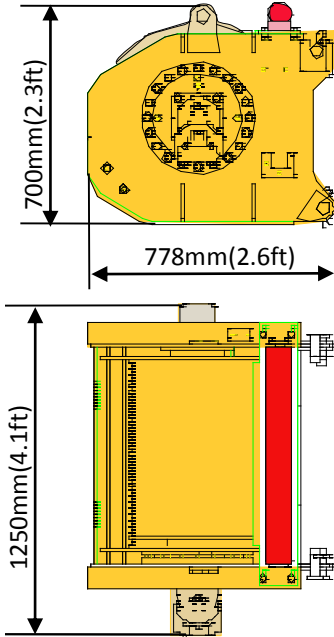
		
385/95 R 25 (14.00 R 25)	2 ~ 80km/h (1.2~50)mph	60%
445/95 R 25 (16.00 R 25)	2.2~85km/h (1.4~53)mph	52%
525/80 R 25 (20.5 R 25)	2.2~85km/h (1.4~53)mph	52%



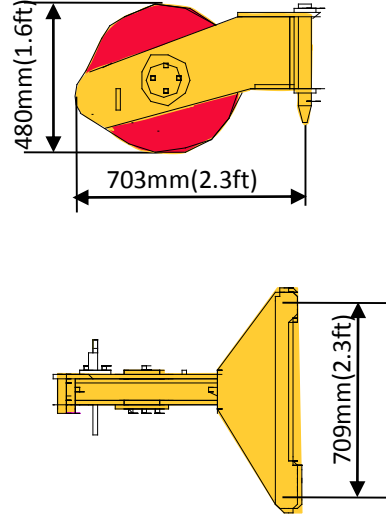
Drive	Working Speed	Max. Single Line Pull	Rope Diameter/ Length
 1	0-125m/min 0-410ft/min single line,4th layer, no load	6 t (6.6ust)	18 mm(0.71in)/ 290 m(951ft)
 2	0-110m/min 0-361ft/min single line,4th layer, no load	6.5 t (7.2ust)	18 mm(0.71in)/ 200 m(656ft)
	0-1.7 rpm		
	Approx. 50s for boom elevation from -0.5° to 83°		
	Approx. 550s for boom extension from 11.7m (38.4ft)to 60m(196.9ft)		

Transportation Component Dimensions

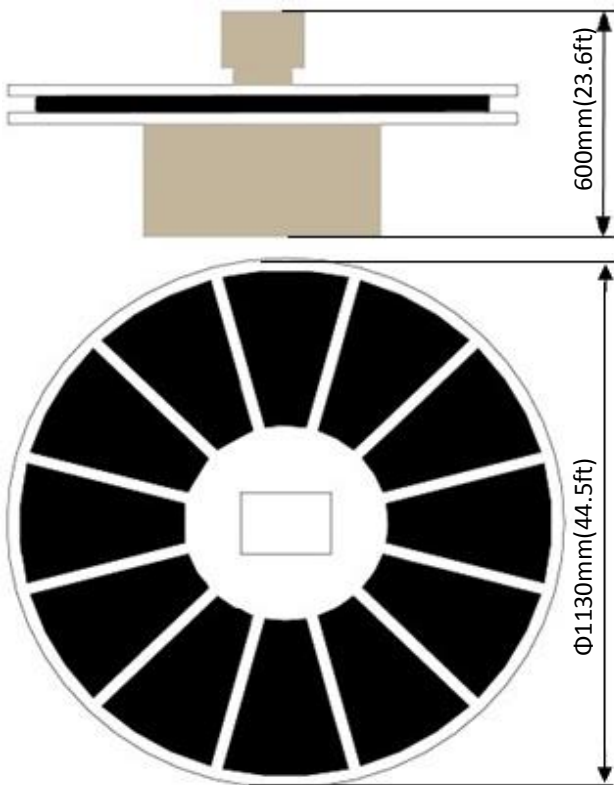
900kg (1984lb)
Auxiliary winch (rope included)



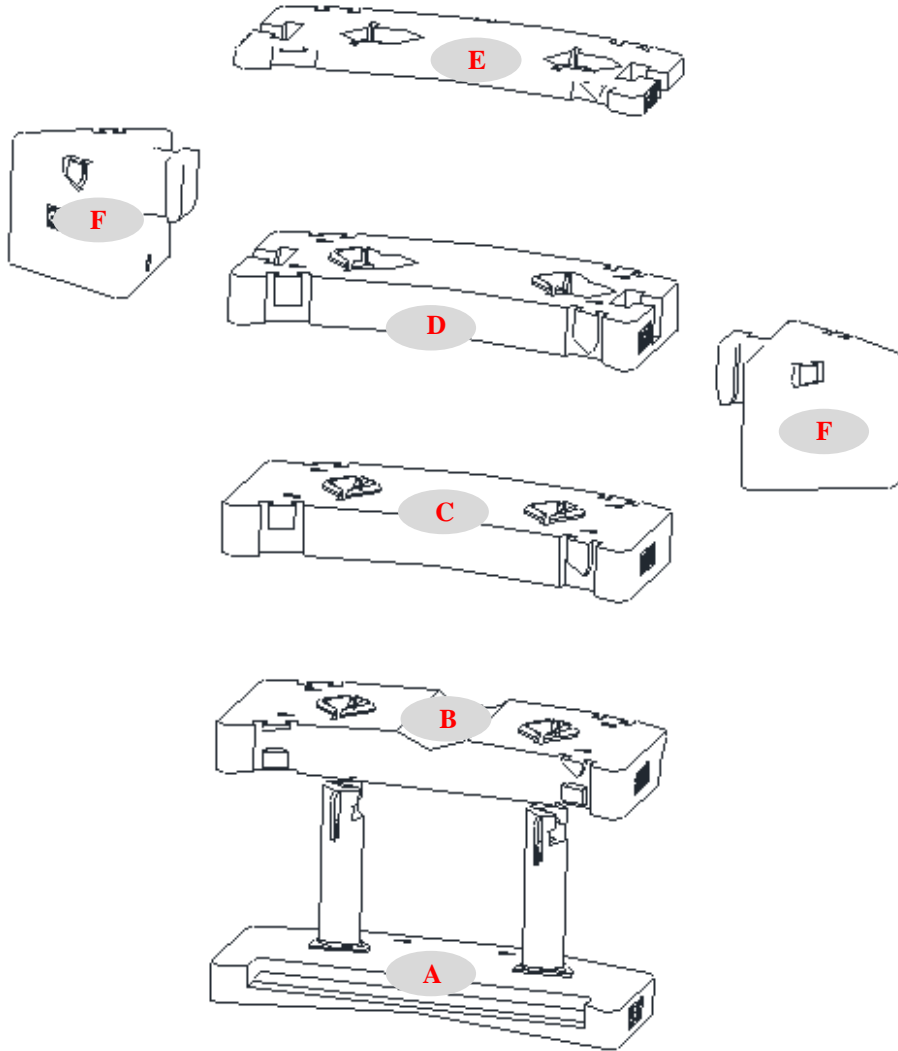
95 kg (209lb)
Single top



380 kg (838lb)
Hose reel



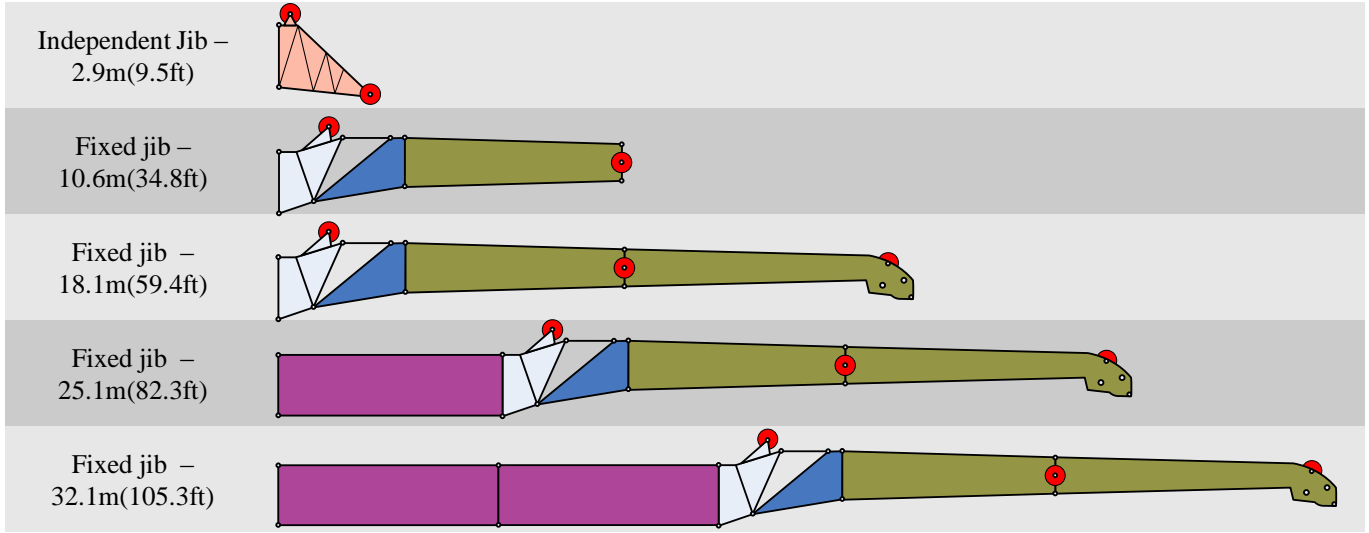
Counterweight



Counterweight	A	B	C	D	E	F
Size (L×W×H)	2.75×1.11×1.344 m (9×3.6×4.4)ft	2.75×1.11×0.356 m (9×3.6×1.2)ft	2.75×1.11×0.371 m (9×3.6×1.2)ft	2.75×1.11×0.3550 m (9×3.6×1.2)ft	2.75×1.11×0.123 m (9×3.6×0.4)ft	1.18×1.016×0.827 m (3.9×3.3×2.7)ft
Weight	4.3t (4.7ust)	4.8t (5.3ust)	5.6t (6.2ust)	5t (5.5ust)	1.8t (2.0ust)	3.6t (4.0ust)

Working mode	28.7t (31.6ust)	21.5t (23.7ust)	19.7 t (21.7ust)	14.7 t (16.2ust)	10.9t (12.0ust)	9.1t (10ust)	4.3t (4.7ust)
Combinations	A+B+C+D+ E+F×2	A+B+C+D+ E	A+B+C+D	A+B+C	A+B+E	A+B	A

Boom / Jib combinations



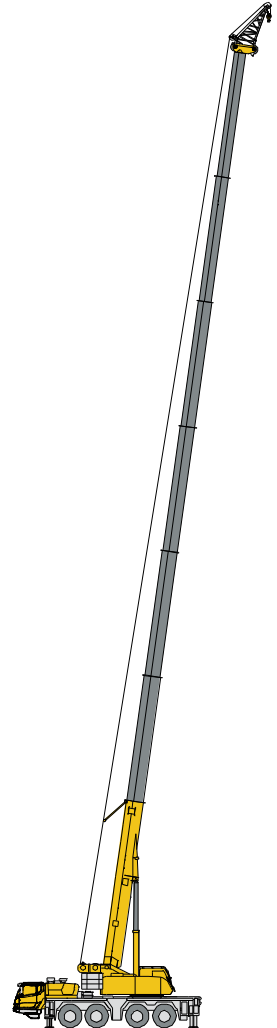
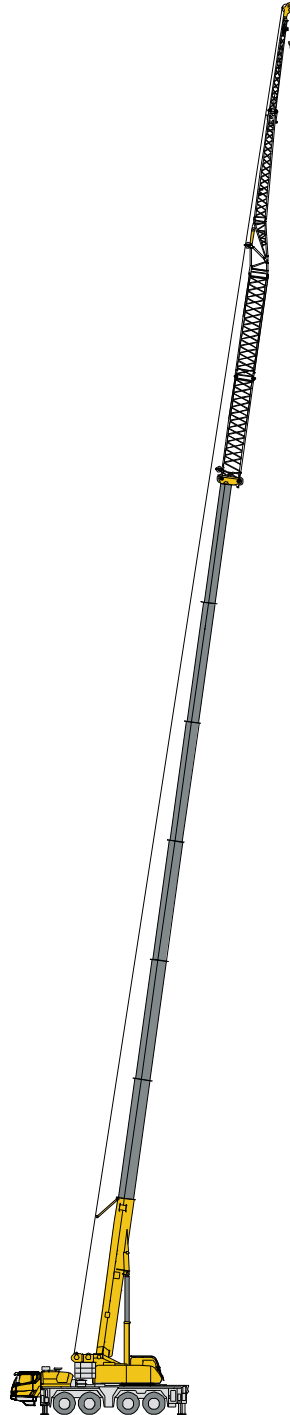
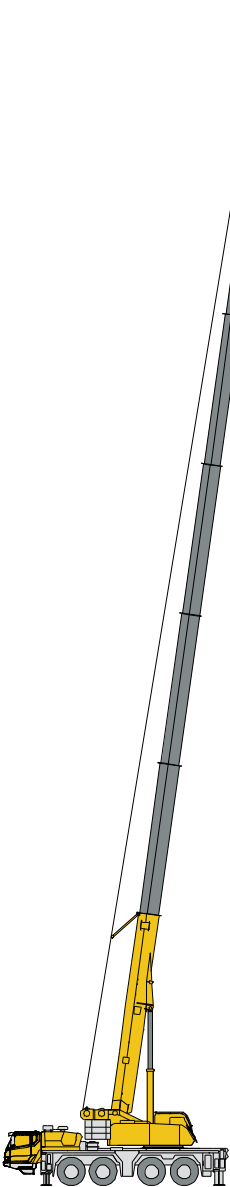
Component	Structure	Size (L×W×H)	Weight
Connection Bracket		2.075×0.945×1.553 m (6.81×3.1×5.09)ft	300kg 661lb
Swinging Bracket		2.86×0.724×1.31 m (9.38×2.37×4.3)ft	260kg 573lb
First Jib Section Assembly		7.485×0.653×0.85 m (24.55×2.14×2.79)ft	470kg 1,036lb
Second Jib Section Assembly		7.53×0.46×0.66 m (24.7×1.51×2.16)ft	340kg 750lb
Jib Extension		7.1×0.95×1.313 m (23.29×3.12×4.31)ft	510kg 1,124lb
Independent Jib		3.208×0.97×2.413 m (10.52×3.18×7.91)ft	520kg 1,146lb

Boom / Jib Combinations

T

J

I



Telescopic boom

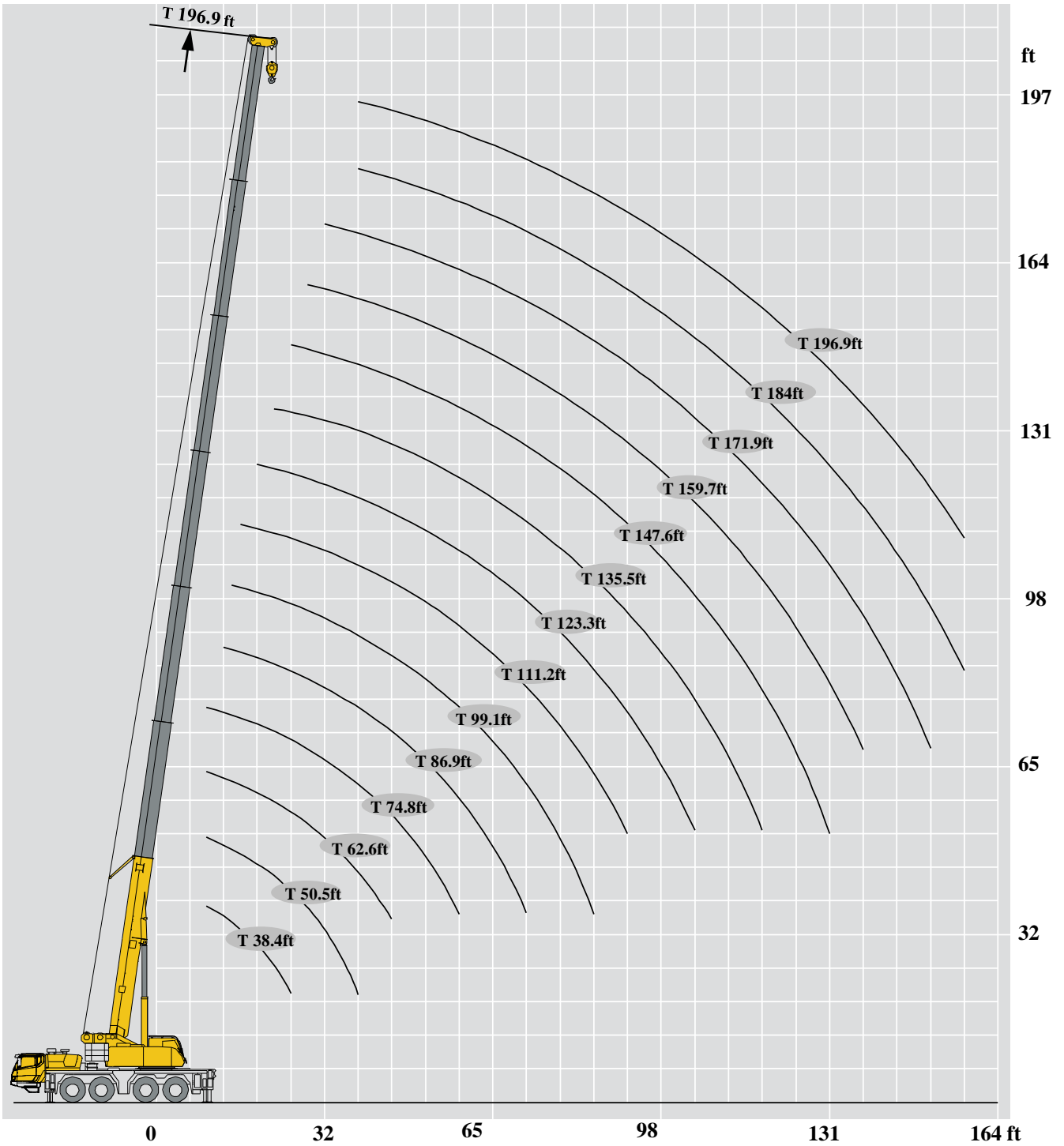
Jib

Independent jib

T : 11.7~60 m
38.4~196.9 ft

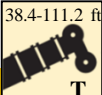



T : 48.7~56.1+7+7 m
159.7~184+23 ft+23 ft
J : 10.6~18.1 m
34.8~59.4 ft

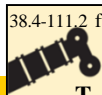



T : 11.7~60 m
38.4~196.9 ft
I : 2.9 m
9.5 ft



Lifting Capacities


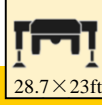


T 38.4~111.2ft


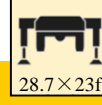


ft	   									ft
	38.4ft	38.4ft	50.5ft	50.5ft	50.5ft	62.7ft	62.7ft	62.7ft	74.8ft	
9.8	110*	71.6	71.6	70.0	67.6	66.7	65.6	65.0	61.2	9.8
11.5		68.0	68.1	66.1	65.6	63.6	62.6	62.1	60.7	11.5
13.1		65.7	65.0	64.5	62.8	60.2	59.4	58.5	57.3	13.1
14.8		60.7	61.1	60.6	57.0	57.1	56.2	54.7	54.8	14.8
16.4		49.8	55.6	53.5	50.3	54.7	53.6	52.9	51.8	16.4
19.7		46.4	48.5	49.4	44.1	48.4	49.8	47.4	47.6	19.7
23.0		42.9	43.0	43.5	41.9	42.2	43.1	44.3	42.3	23.0
26.2		37.8	37.0	38.5	38.9	37.6	38.4	39.5	37.8	26.2
29.5			34.2	34.8	34.0	34.7	35.1	35.4	35.1	29.5
32.8			30.3	30.9	31.0	30.3	31.1	31.7	29.8	32.8
39.4			24.3	24.7	24.9	24.8	25.4	25.6	25.1	39.4
45.9						20.1	21.1	21.2	20.9	45.9
52.5									17.1	52.5
59.1									13.8	59.1
Combination	000000	000000	010000	000100	000010	011000	001100	000110	011100	Combination

ft	   									ft
	74.8ft	74.8ft	86.9ft	86.9ft	86.9ft	99.1ft	99.1ft	99.1ft	111.2ft	
9.8	60.4	60.1								9.8
11.5	59.7	59.3								11.5
13.1	56.5	55.9	54.0	53.7	53.5					13.1
14.8	54.1	53.6	50.9	50.7	50.3	49.8	49.6	45.5		14.8
16.4	50.8	50.4	48.3	48.1	47.4	47.6	46.8	43.3	43.0	16.4
19.7	46.8	46.4	44.0	43.5	42.9	43.3	42.4	39.6	41.2	19.7
23.0	44.4	41.9	39.7	40.6	39.4	39.7	38.8	36.6	37.7	23.0
26.2	39.7	39.7	37.5	37.7	38.0	35.8	37.1	33.4	35.1	26.2
29.5	35.5	35.5	34.7	35.1	35.4	34.6	35.1	31.3	32.8	29.5
32.8	30.3	31.0	32.8	32.8	33.8	30.9	31.3	29.3	30.7	32.8
39.4	25.4	25.9	24.4	24.8	25.2	25.7	27.4	24.5	24.5	39.4
45.9	21.2	21.4	20.1	20.7	21.3	20.8	21.3	21.6	20.9	45.9
52.5	18.1	18.7	16.5	18.0	19.1	17.2	18.5	19.0	18.4	52.5
59.1	14.8	15.8	13.2	14.7	15.8	14.1	15.5	16.2	15.2	59.1
65.6			10.8	12.2	13.3	11.6	12.9	14.0	12.8	65.6
72.2			9.0	10.3	11.4	9.7	10.9	12.0	10.8	72.2
78.7						8.3	9.5	10.4	9.1	78.7
85.3						6.7	8.0	9.1	7.9	85.3
91.9									6.9	91.9
combination	001110	000111	111100	011110	001111	111110	011111	001112	012111	combination

Lifting Capacities

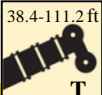



T 111.2~196.9ft

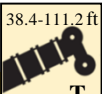
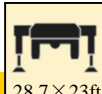


ft	111.2-196.9ft 		28.7×23ft 		360° 		31.6ust 				ft
	111.2ft	111.2ft	123.4ft	123.4ft	123.4ft	135.5ft	135.5ft	135.5ft	147.6ft		
16.4	44.0	41.9									16.4
19.7	41.4	41.0	37.9	34.0	29.2						19.7
23.0	37.9	37.5	36.5	31.6	27.3	31.0	30.3	29.4			23.0
26.2	35.3	34.8	34.2	31.2	27.8	30.6	29.8	28.0	25.6		26.2
29.5	33.0	32.7	31.7	28.8	26.2	30.1	28.8	26.4	25.4		29.5
32.8	31.1	30.9	30.0	26.7	24.7	28.1	26.9	25.1	23.5		32.8
39.4	25.7	25.4	25.4	23.3	22.1	24.5	23.5	22.7	21.4		39.4
45.9	20.3	21.3	20.9	20.3	19.9	20.9	20.8	20.7	19.2		45.9
52.5	18.1	18.7	18.2	18.0	17.9	17.9	18.3	18.7	16.6		52.5
59.1	14.7	16.1	14.9	15.9	16.1	14.7	15.1	15.7	14.2		59.1
65.6	12.2	13.4	12.5	13.3	13.8	12.2	12.7	13.2	11.8		65.6
72.2	10.4	11.5	10.6	11.5	11.8	10.3	10.7	11.2	9.8		72.2
78.7	8.9	9.9	9.1	9.9	10.3	8.6	9.0	9.7	8.2		78.7
85.3	7.5	8.6	7.7	8.5	9.0	7.4	7.8	8.4	6.8		85.3
91.9	6.4	7.6	6.7	7.5	7.7	6.3	6.8	7.2	5.8		91.9
98.4			5.7	6.6	6.9	5.4	5.7	6.3	5.0		98.4
105.0			5.0	5.7	6.1	4.6	5.1	5.5	4.1		105.0
111.5						3.9	4.2	4.7	3.4		111.5
118.1						3.1	3.6	4.2	2.6		118.1
124.7									2.3		124.7
131.2									1.7		131.2
combination	111111	011112	111211	012112	011122	211121	121112	111122	222111		combination

ft	111.2-196.9ft 		28.7×23ft 		360° 		31.6ust 				ft
	147.6ft	147.6ft	159.8ft	159.8ft	159.8ft	171.9ft	171.9ft	184.1ft	196.9ft		
26.2	22.2	25.2									26.2
29.5	20.4	24.1	23.0	22.2	20.5						29.5
32.8	18.9	23.0	21.7	21.3	19.6	19.6	18.5				32.8
39.4	16.5	20.9	19.3	18.7	17.7	17.4	16.4	14.7	12.0		39.4
45.9	14.5	18.7	17.8	16.5	15.7	16.0	14.5	14.0	11.8		45.9
52.5	12.9	16.8	15.9	14.8	14.1	14.7	12.9	13.8	11.7		52.5
59.1	11.6	14.4	13.8	13.3	12.7	13.0	11.5	11.6	10.4		59.1
65.6	10.5	12.9	12.3	12.0	11.5	11.5	10.3	10.3	9.3		65.6
72.2	9.6	11.4	10.6	10.6	10.4	9.9	9.4	9.3	8.5		72.2
78.7	8.7	9.8	9.0	9.4	9.4	8.9	8.6	8.5	7.6		78.7
85.3	7.9	8.5	7.7	8.2	8.5	7.7	7.8	7.2	6.5		85.3
91.9	7.8	7.3	6.5	7.1	7.4	6.5	6.9	6.5	5.8		91.9
98.4	6.6	6.4	5.6	6.0	6.4	5.6	6.2	5.7	5.4		98.4
105.0	6.0	5.6	4.7	5.3	5.4	4.7	5.2	4.9	5.0		105.0
111.5	5.2	5.0	4.1	4.6	5.0	4.1	4.7	4.2	4.2		111.5
118.1	4.6	4.4	3.5	3.9	4.2	3.5	4.0	3.6	3.6		118.1
124.7	4.1	3.7	3.0	3.4	3.6	3.0	3.5	3.0	3.0		124.7
131.2	3.6	3.3	2.5	2.9	3.2	2.5	2.9	2.5	2.5		131.2
137.8			2.0	2.5	2.8	2.1	2.6	2.2	2.2		137.8
144.4						1.8	2.2	1.9	1.9		144.4
150.9						1.2	1.8	1.4	1.4		150.9
157.5									1.1		157.5
combination	012222	111222	221122	122122	112222	222122	122222	222222	333333		combination

Lifting Capacities

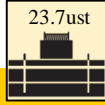
T 38.4~111.2ft

   									
ft	38.4ft	50.5ft	50.5ft	50.5ft	62.7ft	62.7ft	62.7ft	74.8ft	ft
9.8	71.6	71.6	70.0	67.6	66.7	65.6	65.0	61.2	9.8
11.5	68.0	68.1	66.1	65.6	63.6	62.6	62.1	60.7	11.5
13.1	65.7	65.0	64.5	62.8	60.2	59.4	58.5	57.3	13.1
14.8	60.7	61.1	60.6	57.0	57.1	56.2	54.7	54.8	14.8
16.4	49.8	55.6	53.5	50.3	54.7	53.6	52.9	51.8	16.4
19.7	46.4	48.5	49.4	44.1	48.4	49.8	47.4	47.6	19.7
23.0	42.9	43.0	43.5	41.9	42.2	43.1	44.3	42.3	23.0
26.2	37.8	37.0	38.5	38.9	37.6	38.4	39.5	37.8	26.2
29.5		34.2	34.8	34.0	34.7	35.1	35.4	35.1	29.5
32.8		30.0	30.6	31.0	30.3	31.1	31.7	29.8	32.8
39.4		21.7	23.1	23.6	22.4	23.4	24.3	23.1	39.4
45.9					17.1	18.0	19.0	17.7	45.9
52.5								13.9	52.5
59.1								11.2	59.1
combination	000000	010000	000100	000010	011000	001100	000110	011100	combination

   										
ft	74.8ft	74.8ft	86.9ft	86.9ft	86.9ft	99.1ft	99.1ft	99.1ft	111.2ft	ft
9.8	60.4	60.1								9.8
11.5	59.7	59.3								11.5
13.1	56.5	55.9	54.0	53.7	53.5					13.1
14.8	54.1	53.6	50.9	50.7	50.3	49.8	49.6	45.5		14.8
16.4	50.8	50.4	48.3	48.1	47.4	47.6	46.8	43.3	43.0	16.4
19.7	46.8	46.4	44.0	43.5	42.9	43.3	42.4	39.6	41.2	19.7
23.0	44.4	41.9	39.7	40.6	39.4	39.7	38.8	36.6	37.7	23.0
26.2	39.7	39.7	37.5	37.7	38.0	35.8	37.1	33.4	35.1	26.2
29.5	35.5	35.5	34.7	35.1	35.4	34.6	35.1	31.3	32.8	29.5
32.8	30.3	31.0	30.8	32.3	33.8	30.9	31.3	29.3	30.7	32.8
39.4	24.4	25.4	22.5	23.9	25.2	23.4	24.8	24.5	24.5	39.4
45.9	19.0	20.0	17.2	18.6	19.8	18.1	19.4	20.4	19.3	45.9
52.5	15.1	16.0	13.3	14.8	16.1	14.1	15.5	16.6	15.4	52.5
59.1	12.3	13.2	10.7	12.0	13.1	11.5	12.8	13.7	12.6	59.1
65.6			8.6	9.8	10.9	9.3	10.6	11.5	10.5	65.6
72.2			6.9	8.3	9.3	7.6	8.9	9.8	8.8	72.2
78.7						6.3	7.5	8.4	7.4	78.7
85.3						5.1	6.3	7.3	6.3	85.3
91.9									5.2	91.9
combination	001110	000111	111100	011110	001111	111110	011111	001112	012111	combination

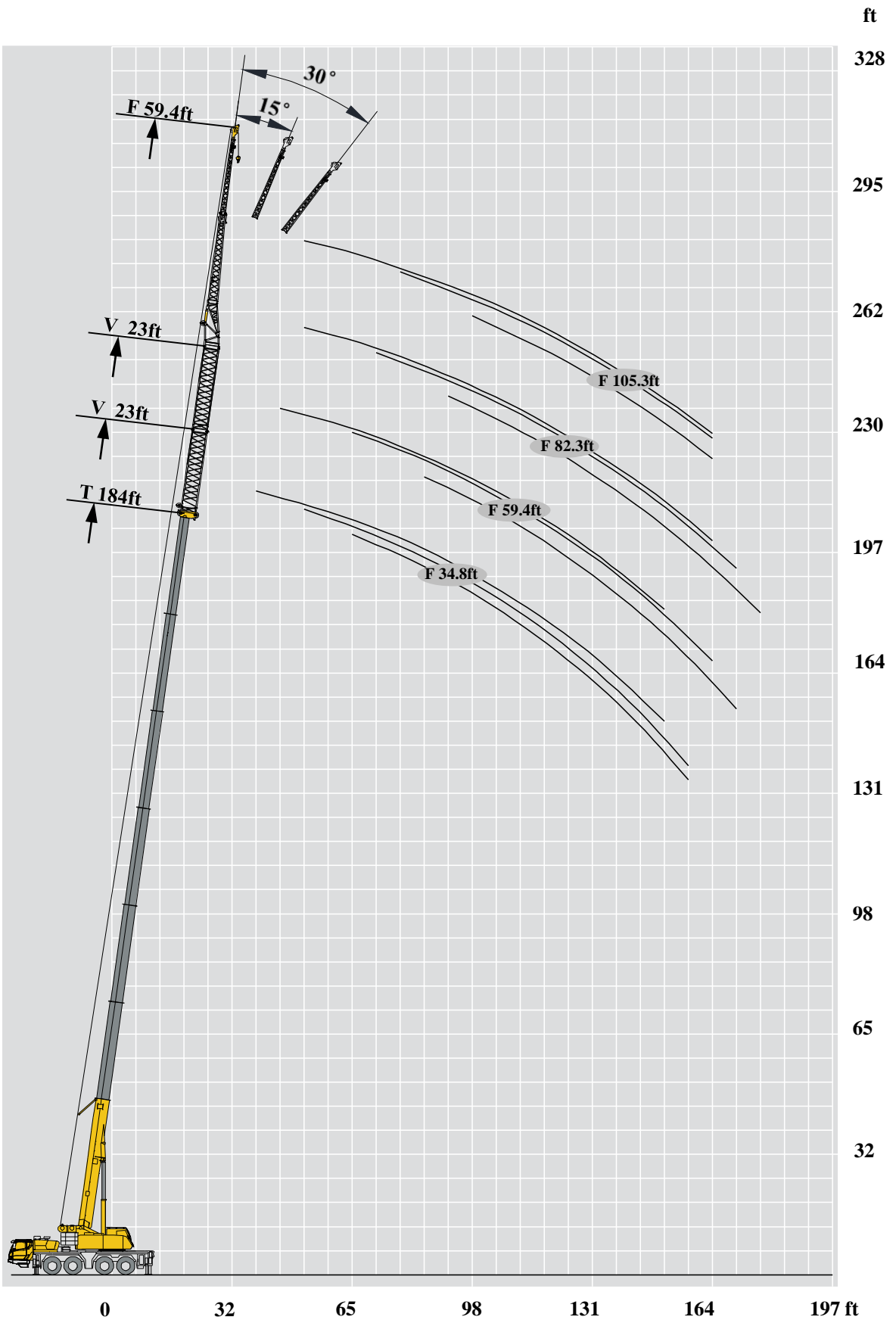
Lifting Capacities

T 111.2~196.9ft





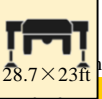


ft	111.2ft	111.2ft	123.4ft	123.4ft	123.4ft	135.5ft	135.5ft	135.5ft	147.6ft	ft
16.4	44.0	41.9								16.4
19.7	41.4	41.0	37.9	34.0	29.2					19.7
23.0	37.9	37.5	36.5	31.6	27.3	31.0	30.3	29.4		23.0
26.2	35.3	34.8	34.2	31.2	27.8	30.6	29.8	28.0	25.6	26.2
29.5	33.0	32.7	31.7	28.8	26.2	30.1	28.8	26.4	25.4	29.5
32.8	31.1	30.9	30.0	26.7	24.7	28.1	26.9	25.1	23.5	32.8
39.4	24.1	25.4	24.4	23.3	22.0	23.8	23.5	22.7	21.4	39.4
45.9	18.8	20.1	19.1	20.0	19.8	18.6	19.2	19.7	18.2	45.9
52.5	15.0	16.1	15.2	16.2	16.5	14.7	15.3	15.9	14.3	52.5
59.1	12.1	13.3	12.3	13.2	13.6	12.0	12.5	13.0	11.6	59.1
65.6	10.0	11.1	10.3	11.0	11.4	9.8	10.4	10.9	9.4	65.6
72.2	8.4	9.5	8.6	9.4	9.7	8.3	8.7	9.3	7.8	72.2
78.7	6.9	8.2	7.2	7.9	8.3	6.8	7.3	7.9	6.4	78.7
85.3	5.8	6.9	6.1	6.8	7.2	5.7	6.2	6.7	5.3	85.3
91.9	5.0	6.0	5.2	6.0	6.3	4.6	5.1	5.7	4.2	91.9
98.4			4.2	5.0	5.5	3.9	4.3	5.0	3.3	98.4
105.0			3.5	4.3	4.6	3.1	3.6	4.2	2.6	105.0
111.5						2.6	3.1	3.5	2.2	111.5
118.1						2.1	2.5	3.1	1.7	118.1
124.7									1.1	124.7
combination	111111	011112	111211	012112	011122	211121	121112	111122	222111	combination





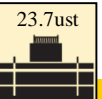
ft	147.6ft	147.6ft	159.8ft	159.8ft	159.8ft	171.9ft	171.9ft	184.1ft	196.9ft	ft
26.2	22.2	25.2								26.2
29.5	20.4	24.1	23.0	22.2	20.5					29.5
32.8	18.9	23.0	21.7	21.3	19.6	19.6	18.5			32.8
39.4	16.5	20.9	19.3	18.7	17.7	17.4	16.4	14.7	12.0	39.4
45.9	14.5	18.7	17.8	16.5	15.7	16.0	14.5	14.0	11.8	45.9
52.5	12.9	16.8	15.9	14.8	14.1	14.7	12.9	13.8	11.7	52.5
59.1	11.6	13.2	12.3	12.8	13.1	12.3	11.5	11.6	10.4	59.1
65.6	10.5	11.0	10.1	10.6	10.9	10.1	10.3	10.0	9.3	65.6
72.2	9.4	9.4	8.4	8.8	9.3	8.5	8.9	8.7	8.4	72.2
78.7	8.3	8.0	6.9	7.5	7.8	7.2	7.6	7.3	7.1	78.7
85.3	7.2	6.8	6.0	6.4	6.7	6.1	6.5	6.2	6.1	85.3
91.9	6.3	5.8	5.1	5.5	5.8	5.2	5.6	5.1	5.3	91.9
98.4	5.3	5.1	4.2	4.7	5.1	4.3	4.9	4.3	4.5	98.4
105.0	4.6	4.4	3.5	4.1	4.2	3.6	4.2	3.6	3.6	105.0
111.5	4.1	3.6	2.9	3.3	3.6	3.0	3.4	3.1	3.1	111.5
118.1	3.5	3.2	2.4	2.8	3.1	2.5	2.9	2.5	2.5	118.1
124.7	3.1	2.6	1.9	2.3	2.6	2.1	2.4	2.1	2.1	124.7
131.2	2.5	2.3	1.5	1.9	2.2	1.7	2.0	1.7	1.7	131.2
137.8			1.0	1.5	1.9	1.1	1.7	1.3	1.3	137.8
144.4							1.3	1.0	1.0	144.4
150.9							0.9			150.9
combination	012222	111222	221122	122122	112222	222122	122222	222222	333333	combination



Lifting Capacities

T 159.8~184.1ft

    										
ft	159.8ft			171.9ft			184.1ft			ft
	34.8ft			34.8ft			34.8ft			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
39.4	10.6			9.0						39.4
45.9	10.5	10.4		8.9			7.2			45.9
52.5	10.2	10.1		8.8	8.8		7.1	7.3		52.5
59.1	10.1	9.5	9.0	8.8	8.6	8.3	7.1	7.1		59.1
65.6	8.9	8.4	8.2	7.9	7.6	7.4	6.9	6.8	6.7	65.6
72.2	7.9	7.5	7.4	6.9	6.8	6.6	6.2	6.0	5.9	72.2
78.7	6.9	6.8	6.6	6.1	6.0	5.9	5.5	5.4	5.3	78.7
85.3	6.2	6.1	6.0	5.5	5.4	5.3	4.8	4.8	4.7	85.3
91.9	5.6	5.5	5.4	4.8	4.8	4.8	4.3	4.2	4.2	91.9
98.4	5.0	5.0	4.9	4.3	4.3	4.3	3.8	3.8	3.8	98.4
105.0	4.5	4.5	4.5	3.9	3.9	3.9	3.3	3.4	3.4	105.0
111.5	4.1	4.0	4.1	3.4	3.5	3.5	2.9	3.0	3.0	111.5
118.1	3.7	3.6	3.7	3.1	3.1	3.1	2.6	2.7	2.7	118.1
124.7	3.3	3.3	3.3	2.7	2.8	2.8	2.3	2.3	2.4	124.7
131.2	2.9	3.0	3.0	2.3	2.5	2.5	2.0	2.0	2.1	131.2
137.8	2.4	2.5	2.7	2.0	2.2	2.2	1.7	1.8	1.8	137.8
144.4	1.9	2.2	2.3	1.7	1.8	1.9	1.3	1.3	1.5	144.4
150.9	1.5	1.8	1.9	1.3	1.4	1.5	0.9	1.1	1.1	150.9
157.5	1.2	1.3	1.4	1.1	1.1	1.3		0.9	0.9	157.5
164.0	0.9	1.0	1.1		0.9	1.1				164.0
combination	221122			222122			222222			combination

    										
ft	159.8ft			171.9ft			184.1ft			ft
	34.8ft			34.8ft			34.8ft			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
39.4	10.6			9.0						39.4
45.9	10.5	10.4		8.9			7.2			45.9
52.5	10.2	10.1		8.8	8.8		7.1	7.3		52.5
59.1	10.1	9.5	9.0	8.8	8.6	8.3	7.1	7.1		59.1
65.6	8.9	8.4	8.2	7.9	7.6	7.4	6.9	6.8	6.7	65.6
72.2	7.9	7.5	7.4	6.9	6.8	6.6	6.2	6.0	5.9	72.2
78.7	6.9	6.8	6.6	6.1	6.0	5.9	5.5	5.4	5.3	78.7
85.3	6.2	6.1	6.0	5.5	5.4	5.3	4.8	4.8	4.7	85.3
91.9	5.5	5.5	5.4	4.8	4.8	4.8	4.3	4.2	4.2	91.9
98.4	4.6	5.0	4.9	4.3	4.3	4.3	3.8	3.8	3.8	98.4
105.0	3.9	4.2	4.5	3.7	3.9	3.9	3.3	3.4	3.4	105.0
111.5	3.2	3.5	3.7	3.1	3.4	3.5	2.9	3.0	3.0	111.5
118.1	2.6	2.9	3.2	2.5	2.9	3.1	2.6	2.7	2.7	118.1
124.7	2.1	2.4	2.5	2.0	2.3	2.5	2.3	2.3	2.4	124.7
131.2	1.7	1.9	2.1	1.5	1.9	2.0	1.8	1.9	2.1	131.2
137.8	1.2	1.4	1.7	1.1	1.4	1.5	1.4	1.4	1.7	137.8
144.4	0.9	1.1	1.2		1.0	1.1	1.0	1.0	1.2	144.4
150.9									0.9	150.9
combination	221122			222122			222222			combination

Lifting Capacities

T 159.8~184.1ft

ft	159.8ft			171.9ft			184.1ft			ft
	59.4ft			59.4ft			59.4ft			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
39.4	5.5									39.4
45.9	5.3			4.7			4.2			45.9
52.5	5.2			4.6			4.2			52.5
59.1	5.0	4.6		4.6			4.1			59.1
65.6	5.0	4.4		4.4	4.2		4.1	4.0		65.6
72.2	4.7	4.3	3.9	4.4	4.1		4.0	3.9		72.2
78.7	4.6	4.2	3.7	4.3	4.0	3.7	4.0	3.7		78.7
85.3	4.4	4.1	3.6	4.3	3.9	3.6	3.9	3.7	3.7	85.3
91.9	4.3	4.0	3.6	4.2	3.9	3.6	3.9	3.6	3.6	91.9
98.4	4.2	4.0	3.6	4.0	3.7	3.6	3.5	3.5	3.5	98.4
105.0	4.1	3.9	3.6	3.6	3.6	3.5	3.1	3.1	3.2	105.0
111.5	3.8	3.8	3.5	3.2	3.2	3.3	2.7	2.8	2.9	111.5
118.1	3.4	3.4	3.4	2.8	2.9	3.0	2.4	2.5	2.5	118.1
124.7	3.1	3.1	3.1	2.5	2.6	2.7	2.1	2.2	2.3	124.7
131.2	2.8	2.8	2.8	2.2	2.3	2.4	1.8	1.9	2.0	131.2
137.8	2.5	2.5	2.6	2.0	2.1	2.1	1.6	1.7	1.8	137.8
144.4	2.2	2.3	2.3	1.7	1.8	1.9	1.3	1.5	1.5	144.4
150.9	2.0	2.0	2.1	1.5	1.6	1.7	1.0	1.2	1.3	150.9
157.5	1.5	1.8	1.9	1.3	1.3	1.5		0.9	1.1	157.5
164.0	1.3	1.6	1.7	1.1	1.1	1.3				164.0
170.6	1.0	1.3	1.5	0.9	0.9	0.9				170.6
177.2		1.0	1.2							177.2
183.7			0.9							183.7
combination	221122			222122			222222			combination

ft	159.8ft			171.9ft			184.1ft			ft
	59.4ft			59.4ft			59.4ft			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
39.4	5.5									39.4
45.9	5.3			4.7			4.2			45.9
52.5	5.2			4.6			4.2			52.5
59.1	5.0	4.6		4.6			4.1			59.1
65.6	5.0	4.4		4.4	4.2		4.1	4.0		65.6
72.2	4.7	4.3	3.9	4.4	4.1		4.0	3.9		72.2
78.7	4.6	4.2	3.7	4.3	4.0	3.7	4.0	3.7		78.7
85.3	4.4	4.1	3.6	4.3	3.9	3.6	3.9	3.7	3.7	85.3
91.9	4.3	4.0	3.6	4.2	3.9	3.6	3.9	3.6	3.6	91.9
98.4	4.2	4.0	3.6	4.0	3.7	3.6	3.5	3.5	3.5	98.4
105.0	4.1	3.9	3.6	3.6	3.6	3.5	3.1	3.1	3.2	105.0
111.5	3.8	3.8	3.5	3.2	3.2	3.3	2.7	2.8	2.9	111.5
118.1	2.9	3.3	3.4	2.8	2.9	3.0	2.4	2.5	2.5	118.1
124.7	2.3	2.9	3.1	2.4	2.6	2.7	2.1	2.2	2.3	124.7
131.2	2.0	2.3	2.8	2.0	2.3	2.4	1.8	1.9	2.0	131.2
137.8	1.5	2.0	2.3	1.7	1.9	2.1	1.4	1.7	1.8	137.8
144.4	1.2	1.5	1.9	1.3	1.5	1.8	1.1	1.5	1.5	144.4
150.9	0.9	1.2	1.5	1.0	1.1	1.4		1.2	1.3	150.9
157.5		0.9	1.1		0.9	1.1		0.9	1.1	157.5
164.0			0.9							164.0
组合 combination	221122			222122			222222			组合 combination

Lifting Capacities



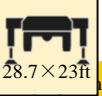


T 159.8~184.1ft


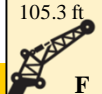
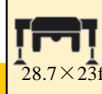


ft	159.8ft			171.9ft			184.1ft			ft
	82.3ft			82.3ft			82.3ft			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
45.9	3.9			3.5						45.9
52.5	3.7			3.4			3.1			52.5
59.1	3.6			3.4			3.1			59.1
65.6	3.6			3.4			3.0			65.6
72.2	3.6	3.6		3.3	3.3		3.0	2.9		72.2
78.7	3.6	3.5		3.3	3.3		3.0	2.9		78.7
85.3	3.5	3.5	3.4	3.3	3.2		3.0	2.9		85.3
91.9	3.5	3.4	3.3	3.3	3.2	3.1	3.0	2.9	2.8	91.9
98.4	3.4	3.3	3.1	3.2	3.1	3.0	3.0	2.9	2.8	98.4
105.0	3.3	3.2	3.1	3.1	3.1	3.0	2.7	2.8	2.8	105.0
111.5	3.1	3.0	3.0	2.8	2.9	2.9	2.3	2.5	2.6	111.5
118.1	2.9	2.9	2.9	2.4	2.5	2.7	2.0	2.2	2.3	118.1
124.7	2.6	2.7	2.8	2.1	2.3	2.4	1.7	1.9	2.0	124.7
131.2	2.3	2.4	2.5	1.9	2.0	2.1	1.5	1.6	1.7	131.2
137.8	2.1	2.2	2.2	1.6	1.8	1.9	1.1	1.3	1.5	137.8
144.4	1.9	1.9	2.0	1.4	1.5	1.6	0.9	1.0	1.1	144.4
150.9	1.6	1.7	1.8	1.1	1.1	1.4			0.9	150.9
157.5	1.4	1.5	1.6		0.9	1.1				157.5
164.0	1.2	1.3	1.4			0.9				164.0
170.6	0.9	1.1	1.2							170.6
177.2		0.9	0.9							177.2
combination	221122			222122			222222			combination

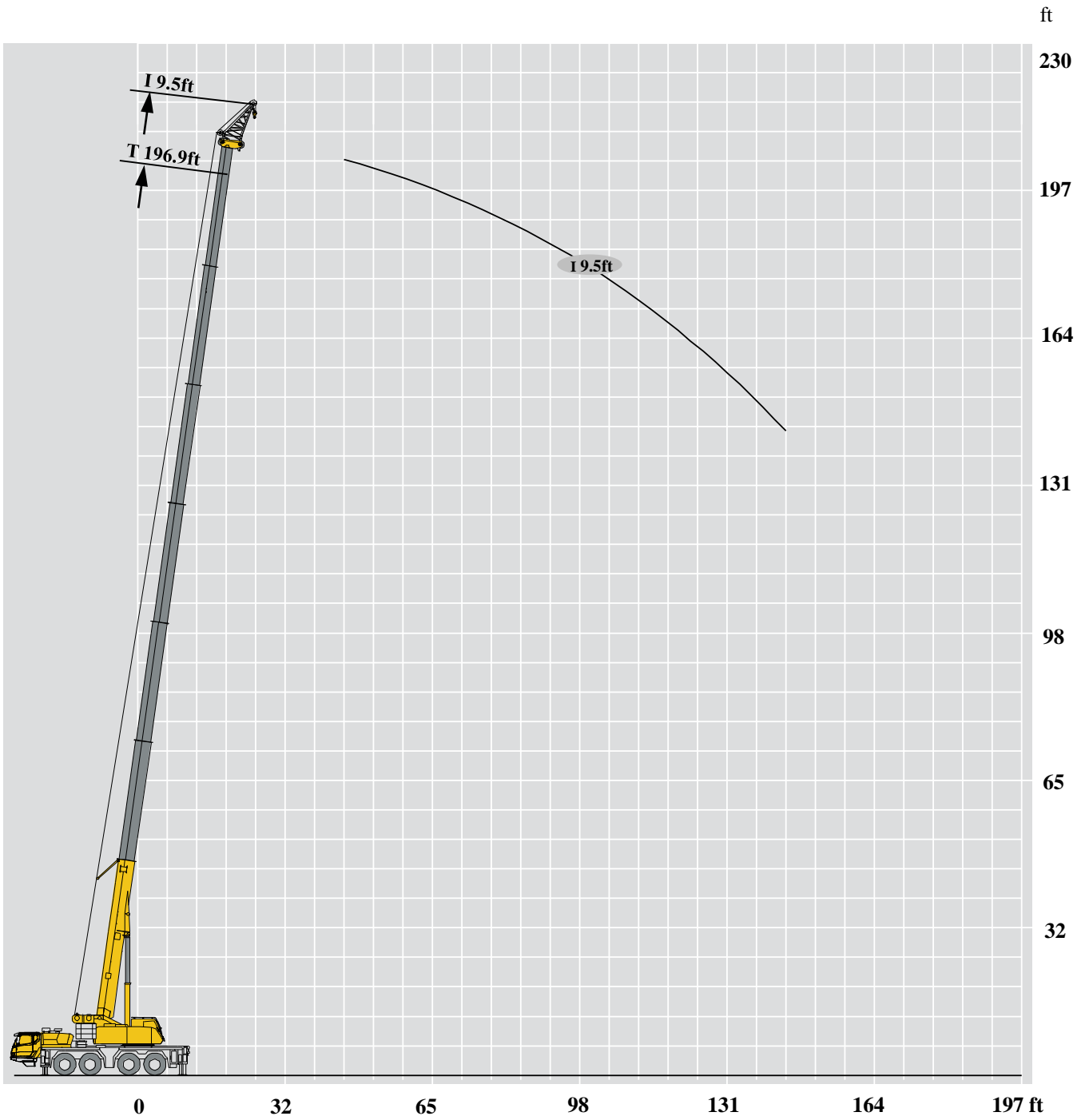
ft	159.8ft			171.9ft			184.1ft			ft
	82.3ft			82.3ft			82.3ft			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
45.9	3.9			3.5						45.9
52.5	3.7			3.4			3.1			52.5
59.1	3.6			3.4			3.1			59.1
65.6	3.6			3.4			3.0			65.6
72.2	3.6	3.6		3.3	3.3		3.0	2.9		72.2
78.7	3.6	3.5		3.3	3.3		3.0	2.9		78.7
85.3	3.5	3.5	3.4	3.3	3.2		3.0	2.9		85.3
91.9	3.5	3.4	3.3	3.3	3.2	3.1	3.0	2.9	2.8	91.9
98.4	3.4	3.3	3.1	3.2	3.1	3.0	3.0	2.9	2.8	98.4
105.0	3.3	3.2	3.1	3.1	3.1	3.0	2.7	2.8	2.8	105.0
111.5	3.1	3.0	3.0	2.8	2.9	2.9	2.3	2.5	2.6	111.5
118.1	2.9	2.9	2.9	2.4	2.5	2.7	2.0	2.2	2.3	118.1
124.7	2.4	2.7	2.8	2.1	2.3	2.4	1.7	1.9	2.0	124.7
131.2	2.1	2.4	2.5	1.9	2.0	2.1	1.5	1.6	1.7	131.2
137.8	1.7	2.1	2.2	1.5	1.8	1.9	1.1	1.3	1.5	137.8
144.4	1.3	1.7	2.0	1.2	1.5	1.6	0.9	1.0	1.1	144.4
150.9	1.0	1.3	1.7	0.9	1.1	1.4			0.9	150.9
157.5		1.1	1.3		0.9	1.1				157.5
164.0			1.0			0.9				164.0
组合 combination	221122			222122			222222			组合 combination

Lifting Capacities

T 159.8~184.1ft

    										
ft	159.8ft			171.9ft			184.1ft			ft
	105.3ft			105.3ft			105.3ft			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
52.5	2.6			2.4			2.1			52.5
59.1	2.5			2.4			2.1			59.1
65.6	2.5			2.3			2.0			65.6
72.2	2.5	2.6		2.3			2.0			72.2
78.7	2.5	2.6		2.3	2.4		2.0	2.1		78.7
85.3	2.4	2.5		2.2	2.4		1.9	2.0		85.3
91.9	2.4	2.5	2.5	2.2	2.3		1.9	2.0		91.9
98.4	2.4	2.4	2.4	2.2	2.3	2.2	1.8	1.9	2.0	98.4
105.0	2.4	2.4	2.3	2.2	2.2	2.2	1.8	1.9	1.9	105.0
111.5	2.3	2.4	2.3	2.2	2.2	2.2	1.8	1.8	1.9	111.5
118.1	2.2	2.3	2.2	2.0	2.1	2.2	1.6	1.8	1.9	118.1
124.7	2.2	2.2	2.1	1.8	1.9	2.1	1.2	1.6	1.7	124.7
131.2	2.0	2.0	2.0	1.5	1.7	1.8		1.2	1.4	131.2
137.8	1.7	1.9	2.0	1.1	1.5	1.6			1.0	137.8
144.4	1.5	1.6	1.7		1.1	1.1				144.4
150.9	1.1	1.4	1.5							150.9
157.5		1.1	1.3							157.5
combination	221122			222122			222222			combination

    										
ft	159.8ft			171.9ft			184.1ft			ft
	105.3ft			105.3ft			105.3ft			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
52.5	2.6			2.4			2.1			52.5
59.1	2.5			2.4			2.1			59.1
65.6	2.5			2.3			2.0			65.6
72.2	2.5	2.6		2.3			2.0			72.2
78.7	2.5	2.6		2.3	2.4		2.0	2.1		78.7
85.3	2.4	2.5		2.2	2.4		1.9	2.0		85.3
91.9	2.4	2.5	2.5	2.2	2.3		1.9	2.0		91.9
98.4	2.4	2.4	2.4	2.2	2.3	2.2	1.8	1.9	2.0	98.4
105.0	2.4	2.4	2.3	2.2	2.2	2.2	1.8	1.9	1.9	105.0
111.5	2.3	2.4	2.3	2.2	2.2	2.2	1.8	1.8	1.9	111.5
118.1	2.2	2.3	2.2	2.0	2.1	2.2	1.6	1.8	1.9	118.1
124.7	2.2	2.2	2.1	1.8	1.9	2.1	1.2	1.6	1.7	124.7
131.2	2.0	2.0	2.0	1.5	1.7	1.8		1.2	1.4	131.2
137.8	1.7	1.9	2.0	1.1	1.5	1.6			1.0	137.8
144.4	1.3	1.6	1.7		1.1	1.1				144.4
150.9	1.1	1.4	1.5							150.9
157.5		1.1	1.3							157.5
combination	221122			222122			222222			combination



Lifting Capacities

T 38.4ft~111.2ft

ft	38.4-111.2ft T		9.5ft I	28.7×23ft	360°	31.6ust			ft
	38.4ft	50.5ft	50.5ft	50.5ft	62.7ft	62.7ft	62.7ft	74.8ft	
9.8	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	9.8
11.5	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	11.5
13.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	13.1
14.8	32.1	32.1	32.1	32.1	32.2	32.1	32.2	32.2	14.8
16.4	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	16.4
19.7	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	19.7
23.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	23.0
26.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	26.2
29.5	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	29.5
32.8	30.0	30.3	30.2	30.4	30.3	30.4	30.3	30.3	32.8
39.4		24.3	24.5	24.5	24.5	24.5	24.5	24.4	39.4
45.9		20.1	20.2	20.1	20.4	20.5	20.5	21.1	45.9
52.5					16.5	17.3	17.7	17.0	52.5
59.1					13.4	14.2	14.9	13.9	59.1
combination	000000	010000	000100	000010	011000	001100	000110	011100	combination

ft	38.4-111.2ft T		9.5ft I	28.7×23ft	360°	31.6ust			ft	
	74.8ft	74.8ft	86.9ft	86.9ft	86.9ft	99.1ft	99.1ft	99.1ft		111.2ft
9.8	32.2	32.2							9.8	
11.5	32.2	32.2							11.5	
13.1	32.2	32.2	32.2	32.2	32.2				13.1	
14.8	32.2	32.2	32.2	32.2	32.2				14.8	
16.4	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	16.4	
19.7	32.2	32.2	32.2	32.1	32.2	32.2	32.2	32.2	19.7	
23.0	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	23.0	
26.2	32.1	32.1	32.1	32.1	32.1	32.2	32.1	32.2	26.2	
29.5	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	29.5	
32.8	30.3	30.4	30.0	30.2	30.1	29.8	29.7	29.7	32.8	
39.4	24.4	24.5	24.8	24.8	24.8	24.5	24.5	24.5	39.4	
45.9	22.0	22.6	20.5	20.5	20.6	20.4	20.3	20.3	45.9	
52.5	17.9	19.1	16.3	17.4	17.4	16.9	17.3	17.4	52.5	
59.1	14.8	15.9	13.2	14.4	14.8	13.9	14.7	14.7	59.1	
65.6	12.5	13.4	11.0	12.0	12.8	11.6	12.6	13.2	65.6	
72.2			9.1	10.1	11.4	9.7	10.8	11.4	72.2	
78.7			7.6	8.8	9.8	8.2	9.3	9.9	78.7	
85.3						6.8	8.0	8.7	85.3	
91.9						5.8	6.9	7.8	91.9	
98.4									98.4	
combination	001110	000111	111100	011110	001111	111110	011111	001112	012111	combination

Lifting Capacities

T 111.2~196.9ft

ft	111.2-196.9ft		9.5ft		28.7×23ft		360°		31.6ust		ft
	111.2ft	111.2ft	123.4ft	123.4ft	123.4ft	135.5ft	135.5ft	135.5ft	147.6ft		
16.4	32.2	32.2									16.4
19.7	32.2	32.2	31.5	31.5	31.5	25.8	25.8	25.8			19.7
23.0	32.1	32.1	30.9	30.8	30.8	25.8	25.8	25.8	21.2		23.0
26.2	32.1	32.1	30.2	30.1	30.2	25.4	25.6	25.4	21.2		26.2
29.5	28.9	29.0	28.7	28.4	28.4	24.8	24.8	24.9	20.7		29.5
32.8	24.3	24.3	23.7	23.6	23.6	22.3	22.3	22.3	20.2		32.8
39.4	20.1	20.2	19.6	19.6	19.8	18.7	18.7	18.7	17.9		39.4
45.9	17.0	17.1	17.0	17.0	17.1	16.3	16.3	16.3	15.7		45.9
52.5	14.3	14.7	14.6	14.6	14.6	14.1	14.1	14.3	13.4		52.5
59.1	12.1	12.7	12.2	12.6	12.6	11.9	12.2	12.3	11.4		59.1
65.6	10.3	11.2	10.4	11.0	11.0	9.9	10.4	10.8	9.5		65.6
72.2	8.7	9.7	8.8	9.6	9.9	8.5	8.8	9.4	7.9		72.2
78.7	7.4	8.5	7.5	8.3	8.6	7.2	7.6	8.0	6.7		78.7
85.3	6.4	7.4	6.5	7.3	7.6	6.1	6.5	7.1	5.6		85.3
91.9	5.4	6.5	5.5	6.3	6.6	5.2	5.6	6.1	4.7		91.9
98.4			4.7	5.5	5.8	4.4	4.9	5.3	4.0		98.4
105.0			4.1	4.9	5.2	3.7	4.1	4.6	3.2		105.0
111.5						3.1	3.5	4.0	2.6		111.5
118.1						2.5	3.0	3.4	2.1		118.1
124.7									1.7		124.7
131.2									1.2		131.2
combination	111111	011112	111211	012112	011122	211121	121112	111122	222111	combination	

ft	111.2-196.9ft		9.5ft		28.7×23ft		360°		31.6ust		ft
	147.6ft	147.6ft	159.8ft	159.8ft	159.8ft	171.9ft	171.9ft	184.1ft	196.9ft		
26.2	21.2	21.4									26.2
29.5	21.2	21.4	17.4	17.4	17.6						29.5
32.8	20.7	20.7	17.4	17.4	17.6	14.1	14.1				32.8
39.4	20.2	20.4	17.0	17.0	17.0	14.1	14.1	11.8	9.7		39.4
45.9	17.9	17.9	16.3	16.3	16.3	13.8	13.9	11.6	9.7		45.9
52.5	15.7	15.7	14.9	15.0	14.9	13.2	13.2	11.2	9.5		52.5
59.1	13.7	13.4	12.8	12.8	12.9	12.3	12.3	10.9	9.4		59.1
65.6	11.9	11.9	11.5	11.5	11.5	11.0	11.0	10.3	9.0		65.6
72.2	10.6	10.6	10.1	10.4	10.4	9.7	9.9	8.8	8.4		72.2
78.7	9.4	9.4	8.6	9.0	9.0	8.4	8.4	7.6	7.4		78.7
85.3	8.2	8.2	7.4	7.7	7.9	7.3	7.3	6.5	6.4		85.3
91.9	7.2	7.1	6.3	6.7	6.9	6.4	6.4	5.6	5.5		91.9
98.4	6.2	6.2	5.4	5.7	6.0	5.5	5.7	4.9	4.7		98.4
105.0	5.5	5.4	4.5	5.0	5.1	4.6	4.9	4.1	4.0		105.0
111.5	4.9	4.6	3.9	4.3	4.4	4.0	4.1	3.5	3.4		111.5
118.1	4.2	4.1	3.3	3.6	3.9	3.4	3.5	3.0	2.9		118.1
124.7	3.5	3.5	2.8	3.2	3.3	2.9	3.0	2.4	2.3		124.7
131.2	3.2	3.1	2.3	2.6	3.0	2.4	2.6	2.0	1.9		131.2
137.8	2.8	2.6	1.9	2.2	2.4	2.0	2.2	1.5	1.5		137.8
144.4			1.4	1.9	2.0	1.5	1.8	1.2	1.1		144.4
150.9						1.2	1.3	0.9			150.9
Combination	012222	111222	221122	122122	112222	222122	122222	222222	333333	combination	

Lifting Capacities

T 38.4ft~111.2ft

ft	38.4-111.2ft		9.5ft	28.7×23ft	360°	23.7ust			ft
	38.4ft	50.5ft	50.5ft	50.5ft	62.7ft	62.7ft	62.7ft	74.8ft	
9.8	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	9.8
11.5	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2	11.5
13.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	32.2	13.1
14.8	32.1	32.1	32.1	32.2	32.1	32.2	32.1	32.2	14.8
16.4	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	16.4
19.7	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	19.7
23.0	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	23.0
26.2	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	26.2
29.5	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	29.5
32.8	30.0	30.3	30.2	30.4	30.3	30.4	30.3	30.3	32.8
39.4		22.4	23.5	23.9	22.6	23.4	24.1	23.0	39.4
45.9		17.2	18.2	18.6	17.3	18.2	18.8	17.7	45.9
52.5					13.8	14.6	15.2	14.1	52.5
59.1					11.0	11.8	12.5	11.5	59.1
combination	000000	010000	000100	000010	011000	001100	000110	011100	combination

ft	38.4-111.2ft		9.5ft	28.7×23ft	360°	23.7ust				ft
	74.8ft	74.8ft	86.9ft	86.9ft	86.9ft	99.1ft	99.1ft	99.1ft	111.2ft	
9.8	32.2	32.2								9.8
11.5	32.2	32.2								11.5
13.1	32.2	32.2	32.2	32.2	32.2					13.1
14.8	32.2	32.2	32.2	32.2	32.2					14.8
16.4	32.2	32.2	32.2	32.2	32.2	32.2	32.2	32.2		16.4
19.7	32.2	32.2	32.2	32.1	32.2	32.2	32.2	32.2	32.2	19.7
23.0	32.1	32.1	32.1	32.1	32.1	32.2	32.2	32.2	32.2	23.0
26.2	32.1	32.1	32.1	32.1	32.1	32.2	32.1	32.2	32.2	26.2
29.5	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.2	29.5
32.8	30.3	30.4	30.0	30.2	30.1	29.8	29.7	29.7	28.9	32.8
39.4	24.0	24.9	22.3	23.6	24.7	22.9	24.3	24.5	24.0	39.4
45.9	18.7	19.6	17.1	18.3	19.4	17.7	19.0	19.8	18.7	45.9
52.5	15.1	15.9	13.6	14.7	15.7	14.0	15.2	16.2	15.1	52.5
59.1	12.3	13.1	10.8	12.0	13.0	11.4	12.6	13.4	12.3	59.1
65.6	10.3	11.0	8.8	9.9	10.9	9.3	10.5	11.4	10.3	65.6
72.2			7.2	8.3	9.3	7.7	8.8	9.7	8.6	72.2
78.7			5.8	6.9	7.8	6.4	7.5	8.3	7.3	78.7
85.3						5.3	6.4	7.2	6.2	85.3
91.9						4.3	5.4	6.3	5.3	91.9
98.4									4.4	
combination	001110	000111	111100	011110	001111	111110	011111	001112	012111	combination

Lifting Capacities

T 111.2~196.9ft

ft	111.2-196.9ft		9.5ft		28.7×23ft		360°		23.7ust		ft
	111.2ft	111.2ft	123.4ft	123.4ft	123.4ft	135.5ft	135.5ft	135.5ft	147.6ft		
19.7	32.2	32.2									19.7
23.0	32.2	32.2	31.5	31.5	31.5	25.8	25.8	25.8			23.0
26.2	32.1	32.1	30.9	30.8	30.8	25.8	25.8	25.8	21.2		26.2
29.5	32.1	32.1	30.2	30.1	30.2	25.4	25.6	25.4	21.2		29.5
32.8	28.9	29.0	28.7	28.4	28.4	24.8	24.8	24.9	20.7		32.8
39.4	23.6	24.3	23.7	23.6	23.6	22.3	22.3	22.3	20.2		39.4
45.9	18.3	19.4	18.5	19.3	19.7	18.1	18.5	18.7	17.5		45.9
52.5	14.7	15.8	14.8	15.7	16.0	14.4	14.9	15.4	13.9		52.5
59.1	11.9	13.0	12.1	12.9	13.2	11.7	12.1	12.7	11.2		59.1
65.6	9.9	10.9	10.0	10.8	11.1	9.7	10.0	10.6	9.1		65.6
72.2	8.3	9.3	8.4	9.1	9.5	8.0	8.4	8.9	7.5		72.2
78.7	6.9	7.9	7.1	7.8	8.2	6.7	7.1	7.6	6.2		78.7
85.3	5.8	6.8	6.0	6.7	7.1	5.6	6.0	6.5	5.2		85.3
91.9	4.9	5.8	5.1	5.7	6.1	4.6	5.1	5.5	4.2		91.9
98.4	4.1	5.1	4.2	5.0	5.3	3.9	4.3	4.7	3.4		98.4
105.0			3.5	4.3	4.6	3.2	3.6	4.1	2.8		105.0
111.5			3.0	3.6	4.0	2.6	3.0	3.4	2.2		111.5
118.1						2.1	2.4	3.0	1.7		118.1
124.7						1.7	2.0	2.4	1.2		124.7
Combination	111111	011112	111211	012112	011122	211121	121112	111122	222111	combination	

ft	111.2-196.9ft		9.5ft		28.7×23ft		360°		23.7ust		ft
	147.6ft	147.6ft	159.8ft	159.8ft	159.8ft	171.9ft	171.9ft	184.1ft	196.9ft		
26.2	21.2	21.4									26.2
29.5	21.2	21.4	17.4	17.4	17.6						29.5
32.8	20.7	20.7	17.4	17.4	17.6	14.1	14.1				32.8
39.4	20.2	20.4	17.0	17.0	17.0	14.1	14.1	11.8	9.7		39.4
45.9	17.9	17.9	16.3	16.3	16.3	13.8	13.9	11.6	9.7		45.9
52.5	15.9	15.4	14.7	15.0	14.9	13.2	13.2	11.2	9.5		52.5
59.1	13.1	12.8	11.9	12.3	12.7	12.0	12.3	10.9	9.4		59.1
65.6	11.0	10.7	9.8	10.3	10.6	9.9	10.4	9.9	9.0		65.6
72.2	9.4	9.0	8.2	8.6	8.9	8.4	8.7	8.3	8.4		72.2
78.7	8.0	7.7	6.8	7.3	7.6	6.9	7.4	6.9	6.9		78.7
85.3	6.9	6.5	5.7	6.2	6.5	5.8	6.3	5.8	5.8		85.3
91.9	6.0	5.6	4.9	5.3	5.5	5.0	5.3	5.0	5.0		91.9
98.4	5.2	4.9	4.1	4.4	4.7	4.2	4.5	4.2	4.2		98.4
105.0	4.5	4.2	3.4	3.7	4.1	3.5	3.9	3.4	3.5		105.0
111.5	3.9	3.5	2.8	3.2	3.4	2.9	3.3	2.9	2.9		111.5
118.1	3.4	3.0	2.3	2.6	3.0	2.3	2.8	2.3	2.3		118.1
124.7	2.9	2.5	1.8	2.2	2.4	1.9	2.3	1.9	1.9		124.7
131.2	2.4	2.1	1.4	1.8	2.1	1.5	1.9	1.4	1.4		131.2
137.8	2.1	1.8	1.0	1.4	1.7	1.1	1.4	1.1	1.1		137.8
combination	012222	111222	221122	122122	112222	222122	122222	222222	333333	combination	

Table of Main Technical Parameters















Category	Item	Unit	Parameter		
Dimensions	Outline size (length×width×height)	ft	43.3×9.0×13.1	43.3×9.0×13.3	43.3×9.5×13.3
	Wheel base	ft	5.4+8.0+5.4		
	Track (Front/Rear)	ft	7.7(14.00R25)	7.5(16.00R25)	7.7(20.5R25)
	Front/ Rear overhang	ft	11.3/8.5		
	Front/ Rear extension	ft	4.2/0.5		
Weight		Ust	52.2	52.8	53.5
	1st axle	Ust	13.2	13.4	13.5
	2nd axle	Ust	13.2	13.4	13.5
	3rd axle	Ust	12.9	13.0	13.2
	4th axle	Ust	12.9	13.0	13.2
Power	Engine model	—	OM471LA.E4/4		
	Engine rated power/rpm	bhp/(r/min)	456/1700		
	Max. net power/rpm	bhp/(r/min)	456/1700		
	Engine rated torque/rpm	lb-ft/(r/min)	1623/1300		
Travel	Max. travel speed	mph	50	53	53
	Min. travel speed	mph	1.2	1.4	1.4
	Min. turning diameter	ft	51.8	61.4	65.2
	Min. turning diameter at boom tip	ft	67.3	74.2	77.4
	Min. ground clearance	ft	1.1	1.3	1.3
	Approach angle	°	16	17	17
	Departure angle	°	13.5	14.5	14.5
	Braking distance (at 39.8mph)	ft	≤131.2		
	Max. grade ability	%	≥60	≥52	≥52
	Fuel consumption per 100 km	Us gal	15.9	17.2	17.2
Noise	Exterior noise level	dB(A)	≤80		
	Noise level at seated position	dB(A)	≤90		

Table of Main Technical Parameters




Category	Item		Unit	Parameter	
Main Performance	Max. total rated lifting capacity		Ust	110	
	Min. rated working radius		ft	9.8	
	Turning radius at turntable tail	Counterweight	in	166.5	
		Auxiliary winch	in	177.6	
	Max. load moment	Base boom	lb-ft	2,220,642	
		Fully-extended boom	lb-ft	1,662,080	
		Fully-extended boom + Jib	lb-ft	599,760	
	Outrigger span	Longitudinal	ft	28.7	
		Lateral	ft	23.0	
	Hoist height	Base boom	ft	38.4	
		Fully-extended boom	ft	198.8	
		Fully-extended boom + Jib	ft	288.7	
	Boom length	Base boom	ft	38.4	
		Fully-extended boom	ft	196.9	
		Fully-extended boom + Jib	ft	289.4	
Jib offset angle		°	0、15、30		
Working Speed	Boom raising time		s	≤55	
	Boom fully extended time		s	≤500	
	Max. slewing speed		rpm	0 ~ 1.7	
	Outrigger extending and retracting time	Outrigger beam	Retracting	s	≤20
			Extending	s	≤25
		Outrigger jack	Retracting	s	≤40
			Extending	s	≤50
	Hoisting speed (single line, 4th layer, no load)	Main winch	ft/min	≥410	
Auxiliary winch		ft/min	≥361		
Noise	Exterior noise level		dB (A)	≤118	
	Noise level at seated position		dB (A)	≤80	

Description of Symbols

General Symbols

	Outriggers		Axle
	Radius		Driving speed
	Boom position		Gradeability
	Boom length		Tires
	Hook block		Counterweight
	360° rotation		Superstructure
	Winch		Chassis

Crane Specific Symbols

	Boom		Jib
	Independent jib head		

Notes

1. The total rated loads given in the rated load charts are the maximum lifting capacity when the crane is set up on firm and level ground, which includes the weight of the hook block and slings. The weight of above-mentioned devices should be deducted to correctly calculate the load weight.
2. The working radius shown in the rated load charts is the radius when the load is lifted off the ground, and it is the actual value including loaded boom deflection.
3. A lifting operation is permissible only when the wind force is below grade 5 (instantaneous wind speed is 14.1m/s(31.5mph), wind pressure is 125Pa).
4. Before beginning lifting operation, the operator should know the weight of the load to be lifted and its working range, and then select proper working conditions. Never operate the crane beyond the limit shown in the chart. Use the lower value from the chart when the boom length or working radius is between the range of values.
5. Observe the boom angle limit. Never operate the crane with the boom angle beyond the recommended limit even if a load is not being carried. Otherwise, the crane will tip.
6. The boom length given in the rated load charts should accord with the telescoping code of boom sections .



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