



Construction Equipment & Engineering

Call 1800CRANES

XCA120_E All Terrain Crane

Technical specifications



XCA120_E

XCMG ALL TERRAIN CRANE

120t LIFTING CAPACITY



120t



66m



94.5m



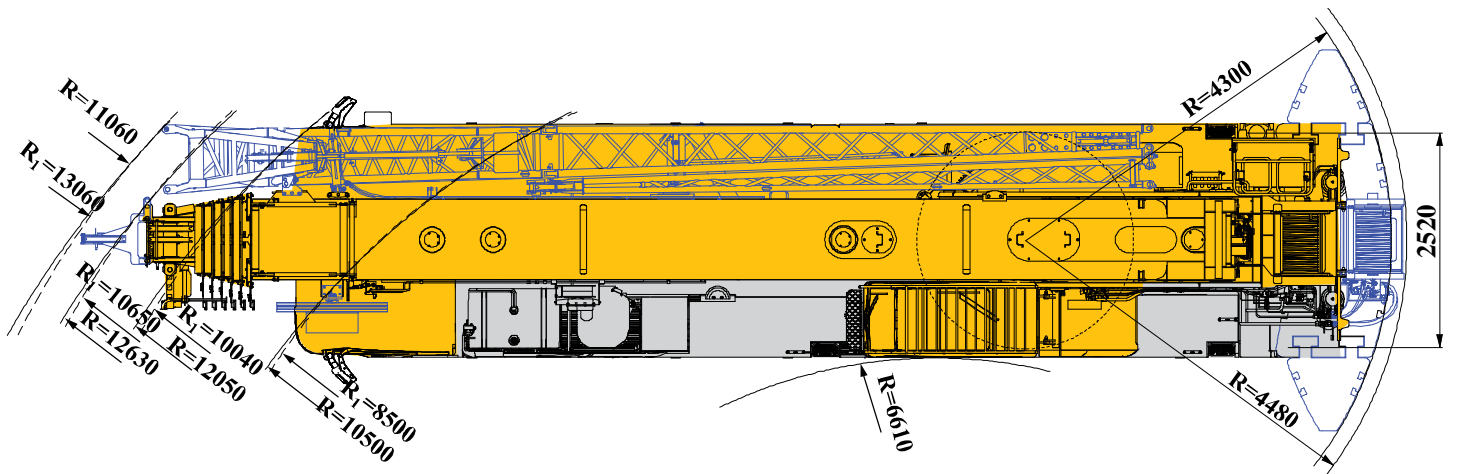
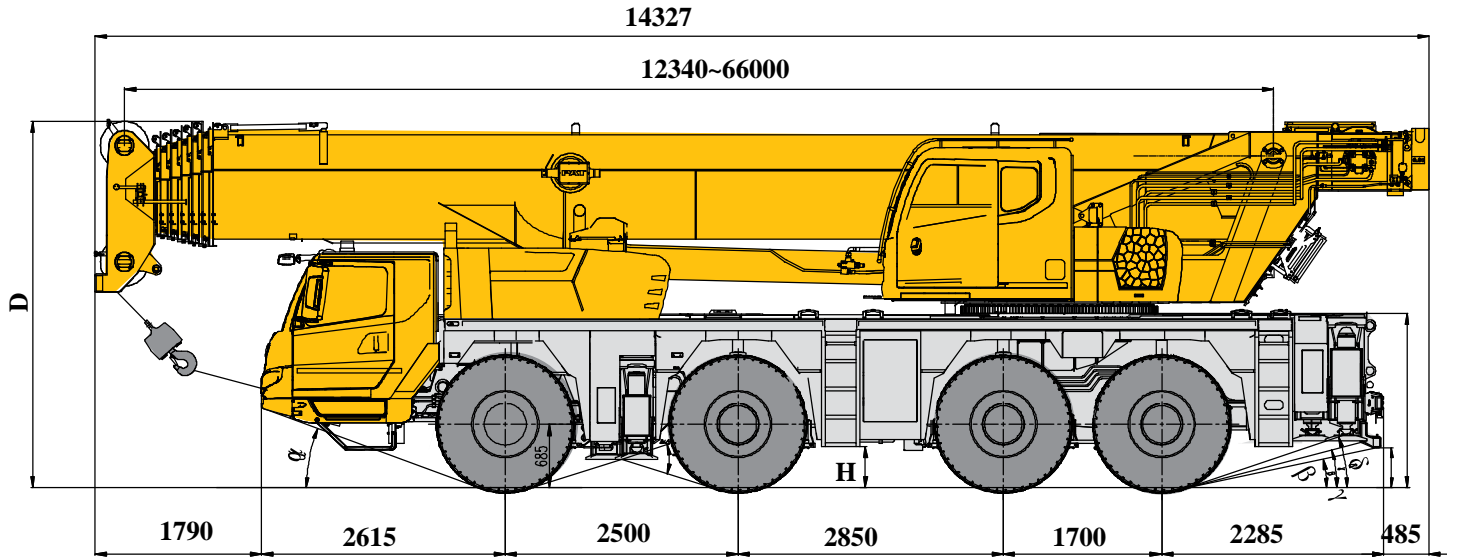
1800CRANES
(08) 9459 6212

www.ronco.com.au
xcmg@ronco.com.au


Contents

Contents		
Dimensions		4-6
Technical specifications		7-9
Version and optional equipments		10-11
Weight		12
Working speeds		13
Counterweight		14
Dimensions of parts to be transported		15-16
Boom / Jib combinations		17-18
	Boom	19-22
Lifting capacities	Boom + independent jib head	23-26
	Boom+1 boom extension+ fixed jib	27-30
	Boom+ 2 boom extension+ fixed jib	31-34
Table of main technical parameters		35-36
Description of symbols		37
Notes		38

Dimensions

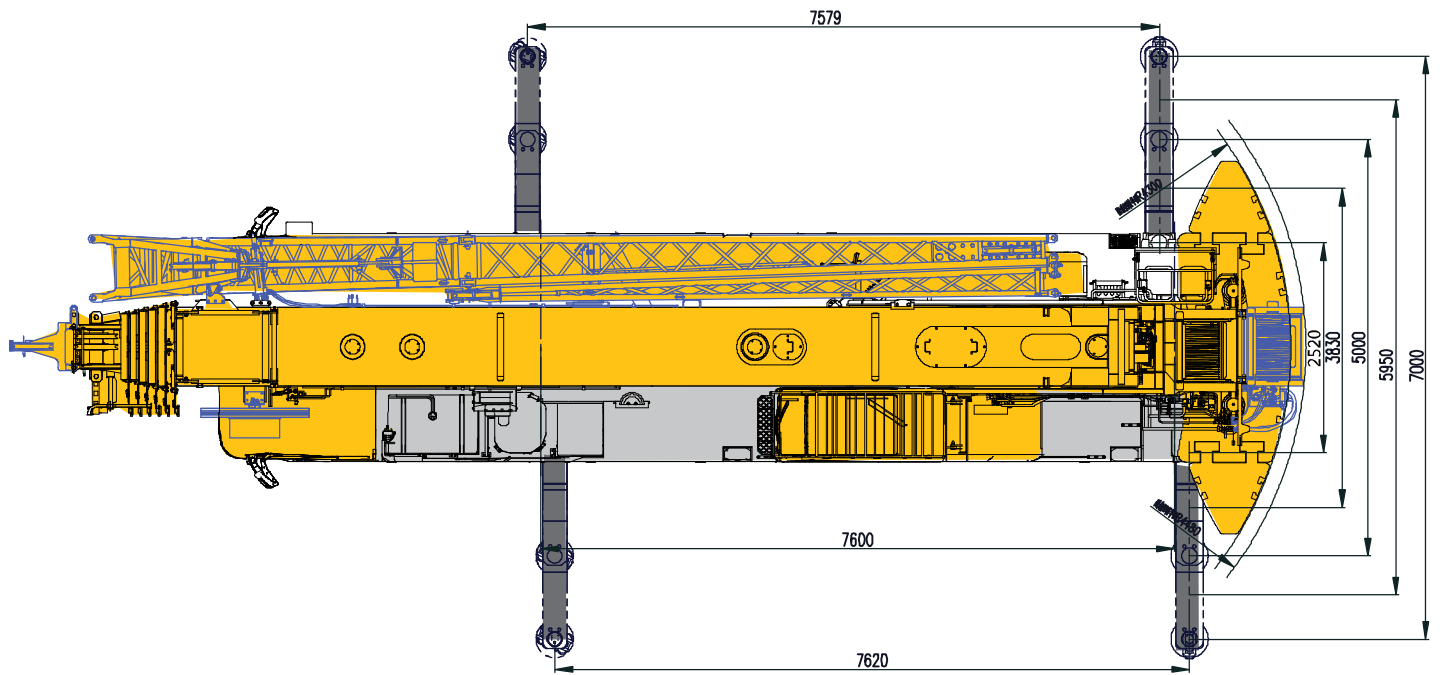
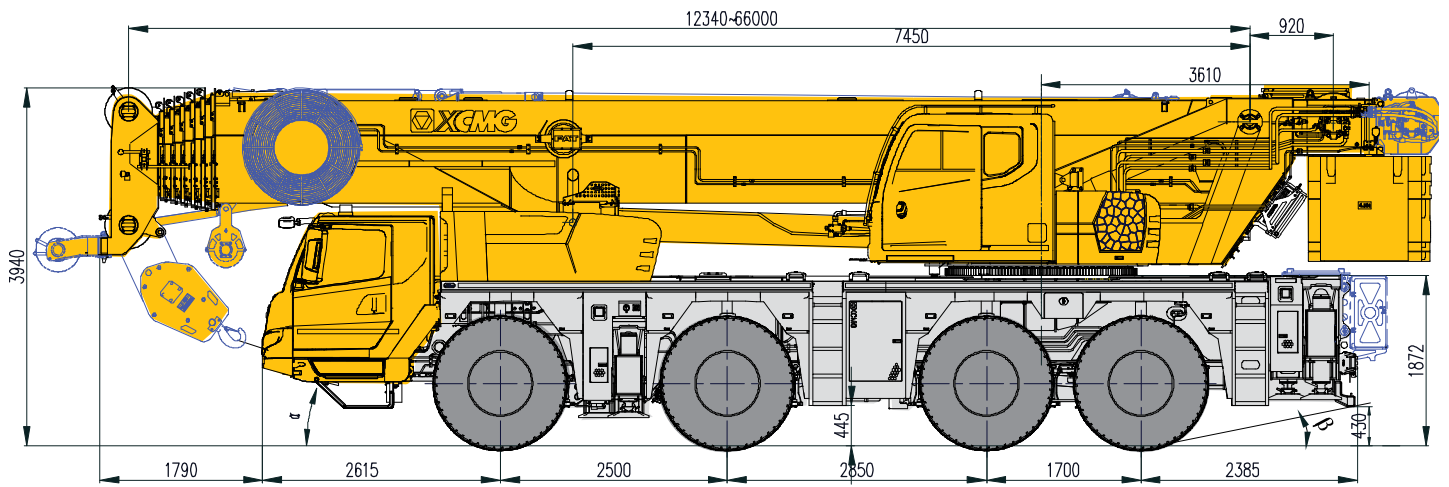



R₁ : Tight-turning mode

	D/mm	B/mm	H/mm	α /°	β /°	γ /°	δ /°
445/95 R25	3940	2750	385	19	12	15	19
385/95 R25	3890	2750	335	18	11	14	18
525/80 R25	3940	2850	385	19	12	15	19

*Suspensions at middle position with full stroke of 300 mm

Dimensions



	D/mm	B/mm	H/mm	$\alpha/^\circ$	$\beta/^\circ$
445/95 R25	3940	2750	385	19	12
385/95 R25	3890	2750	335	18	11
525/80 R25	3940	2850	385	19	12

Technical specifications




Chassis

Frame	Designed and manufactured by XCMG, made of high strength steel. The finite element analysis method is used to carry out simulation analysis and calculation of all working conditions. The manufacturing process is inspected with stringent specification, and the key parts are full-coverage detected to ensure the strength and stability during the bearing process.
Outriggers	H-type single-stage outrigger system with push-pull outrigger float and two telescoping working position (fully-extended and half-extended) to satisfy various working condition requirements. Outrigger control panel is controlled by CAN bus located on the sides of chassis. Outrigger float dimension: $\phi 450\text{mm}$ Reaction force of outrigger at max. lifting load: 722 KN.
Engine	MTU engine OM471LA.E5-2, with rated power of 360kW/1600rpm and max. torque of 2400Nm/1300rpm. Emission standard: EU Stage V /EPA Tier 4F Fuel tank capacity: 460 L. AdBlue tank capacity: 40L
Hydraulic system	The remote constant pressure control system can realize integrated control of the outriggers, suspension and rear steering system, which is mature and stable.
Transmission	German originally imported ZF AMT transmission 12TX2616SO is adopted; It is equipped with 12 forward gears, 2 reverse gears and a retarder.
Axles	Four live axles chassis; the 2 nd , 3 rd and 4 th axles are for driving and all axles are for steering.
Suspensions	With advanced independent suspension technology, the right and left tires can move independently to improve the drive smoothness. Hydro-pneumatic suspension system adopts automatic leveling function and has good shock-absorbing effect. The height of chassis above the ground may be adjusted, and the main reducer is fixed on the frame, which can be lifted up and down with the frame to greatly improves the passability of the vehicle; The stroke of suspension cylinder is $\pm 150\text{mm}$.

Tire	8 tires and 1 spare tire. Tire specifications: 445/95R25 (16.00R25)
Brakes	Service brake: foot pedal operated double-circuit air pressure brake. The first circuit acts on the wheels of axle 3 rd and 4 th ; the second circuit acts on the wheels of axle 1 st and 2 nd . Parking brake is air-release brake, which acts on the 2nd, 3rd and 4th axles, and gives effect by the spring-loaded air chamber on each axle. Auxiliary brake: engine retarder brake, transmission retarder brake and optional eddy current brake
Driver's cab	Full dimension steel structure luxury cab has spring connection structure and rear damper. It is also equipped with electrically operated window lifter, air suspension adjustable seats, electric heating and adjustable rearview mirrors, steering wheel adjustable in four directions, DVD navigation, and large screen liquid crystal display, etc. New combined central control panel is reasonably arranged with arc shape, presenting human-oriented design concept. LED combined lamp; Multifunction steering wheel; Central locking system with remote controller; The interior adopts PVC hot pressing technology; One key; Human-machine interaction with UI interface upgraded; Heater, air conditioner and audio system are standard.
Electrical system	CAN BUS controlled electrical system with fault diagnosis and information centralized indication function, has G1 human-machine interaction system and traveling intelligent controlling system. 24 V DC, two sets of 12 V battery in series. Engine: 28V/150A

Technical specifications

 Superstructure	
Frame	Designed and manufactured by XCMG, made of high strength steel.
Hydraulic system	Transmission PTO is used for superstructure luffing, telescoping, winch operation, auxiliary operation and front steering pump for hydraulic pilot.
Control system	pilot electric and hydraulic proportional control, stepless speed regulation, all movements of the crane is controlled by two levers at left and right sides.
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.
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	Designed according to ergonomics, the cab is safe and comfortable. Safety glass is used, and protective grilles are installed above the roof. Sun shields are equipped for windshield and roof window. A sliding door and a front step with protective handrails are available to make it easy and safe to access and exit the cab. The cab is connected with the turntable through a swing arm which enables the cab to tilt forwards/backwards, also making it easy and safe to access and exit the cab. The cab is also able 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	Total mass 33t Counterweight slab A: 3.1 t Counterweight slab B: 2.1 t Counterweight slab C: 4.3 t Counterweight slab D: 4.3 t Counterweight slab E: 4.0 t Counterweight slab F: 5.1 t Counterweight slab G: 0.9 t Counterweight slab H: 4.6 t×2
Hook block	60 t hook block / 25t hook block/ 11 t hook block
Boom	7-section boom with U-shaped cross-section, welded structure. The double-head telescoping cylinder with single cylinder pinning telescoping system is safer and more reliable. 46%, 92% and fully-extended telescoping modes can be realized. Boom length: 12.3m ~ 66m

Version and optional equipment

Version	Function description	Selection
Standard	Steering mode 8×4, 66m 7-section boom.	

Optional equipment		Selection
Tire	525/80 R25 (20.50R25)	
	385/95 R25 (16.00R25)	
Hook block	130 t	
	Auxiliary winch	
	Additional sheave block	
	Zoom type wireless camera	
	Vibration lever	
	18.5 m stepless luffing jib	
	18.5 m mechanical jib	
	14 m extension section	
	Independent jib head	
	Rear towing device	
	Emergency power	
	Tire stopper	
	Cold weather starting device	
Notes:		
The optional equipments are available.		
The optional tires are not equipped on the purchased version. They can be purchased in the spare parts sales department.		

Weight



	1	2	3	4	Total weight
t	12	12	12	12	48t ⁽¹⁾
t	16.5	16.5	16.5	16.5	66t ⁽²⁾
t	13.5	13.5	12.5	12.5	51.5t ⁽³⁾
t	13.5	13.5	12	12	51t ⁽⁴⁾
t	14.5	14.5	14.5	14.5	57.5t ⁽⁵⁾

(1)

Traveling configuration 1: 48 t

Superstructure includes 11 t hook block, main winch, boom, 0.9 t counterweight; Chassis excludes the spare tire; steering mode is 8×4 (6)

(2)

Traveling configuration 2: 66 t

Superstructure includes 25 t hook block, main winch, boom and 18.7 t counterweight; chassis excludes the spare tire; steering mode is 8×4 (6)

(3)

Traveling configuration 3: 51.5 t

Superstructure includes 25 t hook block, main winch, boom and 4 t counterweight; chassis excludes the spare tire; steering mode is 8×4 (6)

(4)

Traveling configuration 4: 51 t

Superstructure includes 25 t hook block, main winch, boom, hose reel, 2 jib sections and 0.9 t counterweight; chassis excludes the spare tire; steering mode is 8×4 (6)

(5)

Traveling configuration 5: 57.5 t

Superstructure includes 60 t hook block, main winch, boom, hose reel, 2 jib sections and 7.1 t counterweight; chassis excludes the spare tire; steering mode is 8×4 (6)



	Parts of line	Weight (kg)	Dimensions (mm)	Remarks
130 t	14	1200	1907×760×837	双钩 Double hook
60 t	7	580	1456×623×493	双钩 Double hook
25 t	3	400	1439×335×630	单钩 Single hook
11 t	1	218	848×320	单钩 Single hook

Working speeds

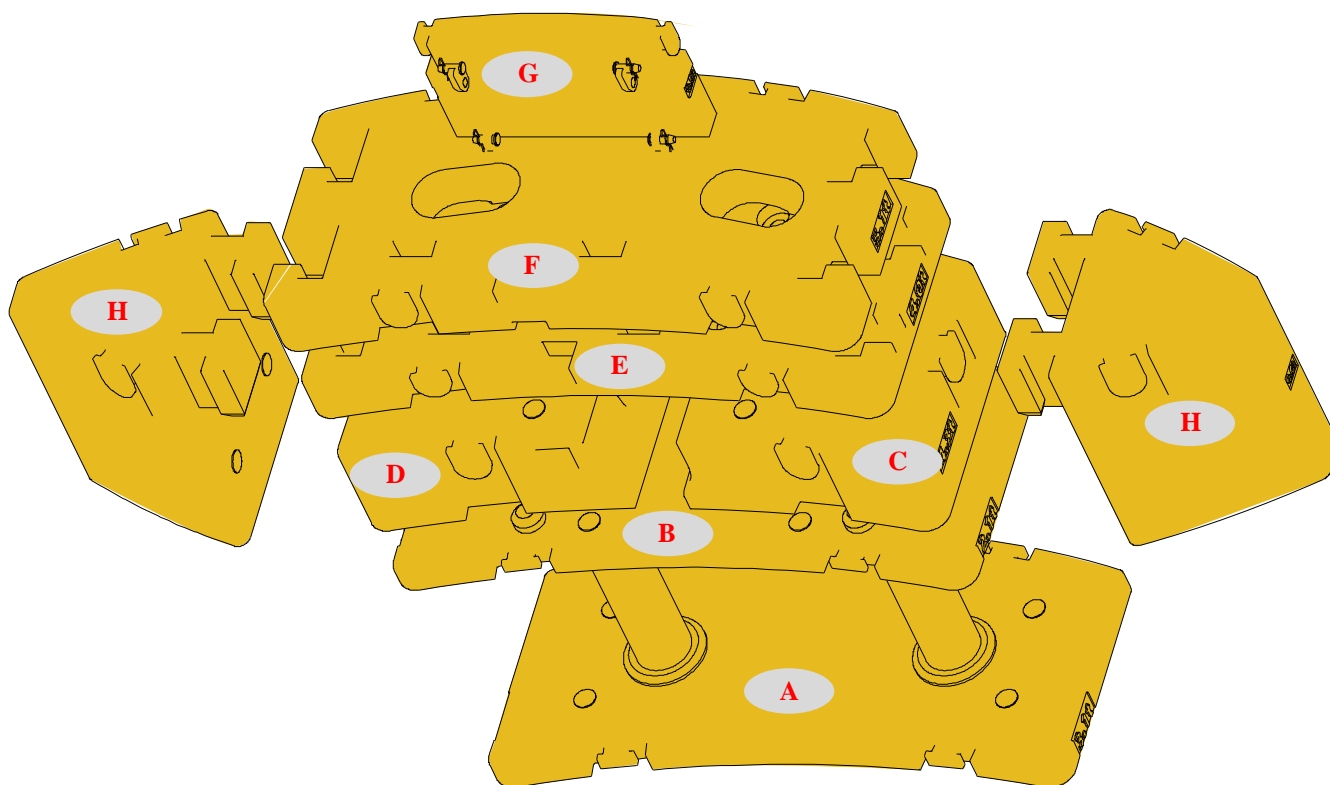


445/95 R 25 (16.00 R 25)	2 ~ 80	60%
525/80 R 25 (20.5 R 25)	2 ~ 80	60%
385/95 R 25 (14.00 R 25)	2 ~ 80	60%



Drive	Working speed	Max. single line pull	Rope diameter/ length
	0-135 m/min, m/min, single line, 4th layer	89kN	20 mm/250 m
	0-135 m/min, m/min, single line, 4th layer	89 kN	20 mm/205 m
	0-1.45 r/min		
	Approx. 55s for boom elevation from -0.5° to 82°		
	Approx. 550s for boom extension from 12.3m to 66m		

Counterweight

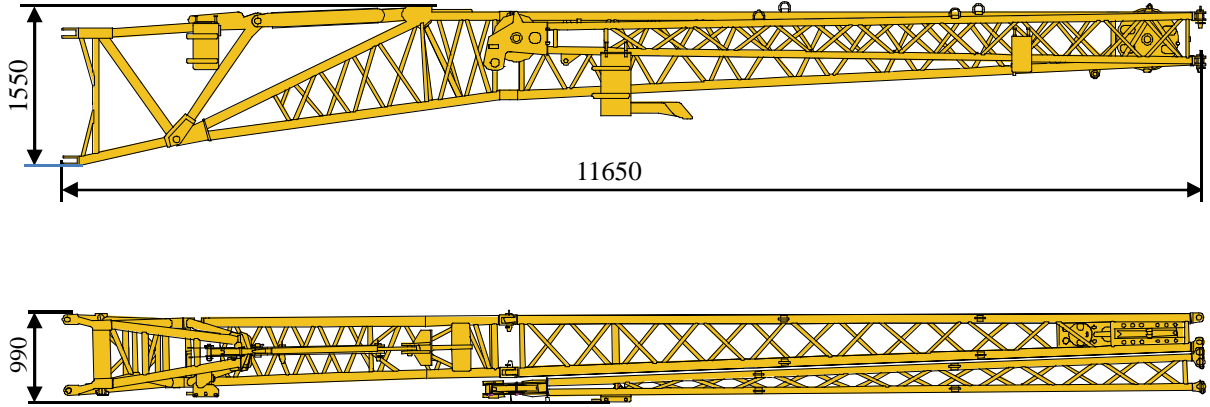


Counterweight	A	B	C	D	E	F	G	H
Size (L×W×H) (mm)	2750×1372 ×1150	2750×1372 ×130	1245×137 2×505	1245×137 2×505	2750×137 2×232	2750×137 2×270	1200×650 ×281	1110×100 ×1153
Weight (t)	3.1	2.1	4.3	4.3	4	5.1	0.9	4.6

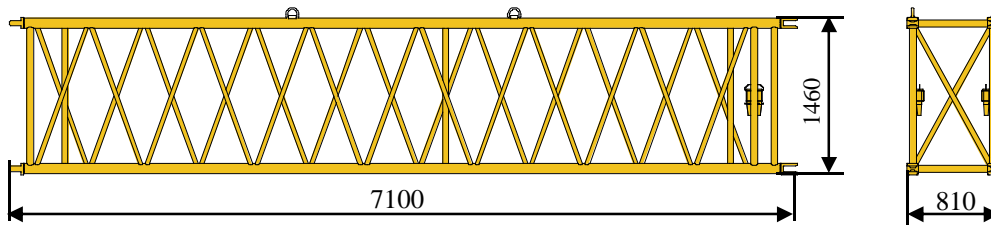
Working mode	33t	23.8t	18.7t	14.7t	7.1 t	6.1 t	4 t	0.9t
Combinations	G+A+B+C +D+E+F+ H×2	G+A+B+C +D+E+F	G+A+B+C +D+E	G+A+B+C +D	A+E	G+A+B	G+A	G

Dimensions of parts to be transported

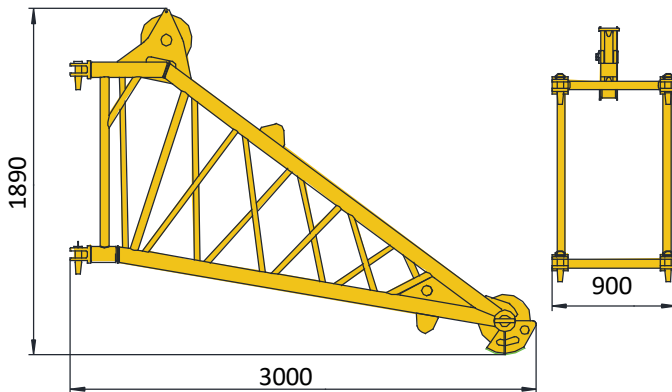
Jib and bracket 2200kg



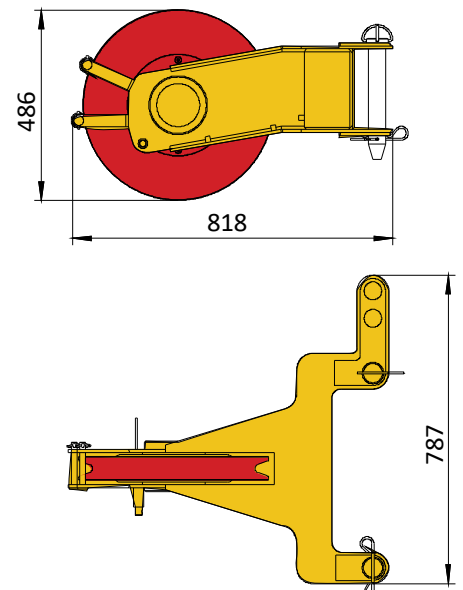
Boom extension 640kg



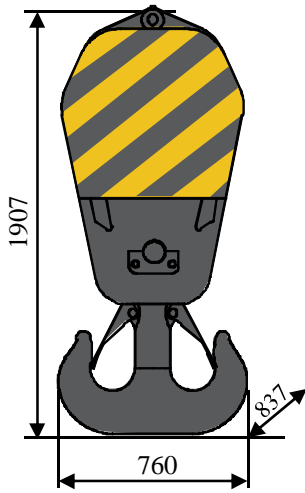
Independent jib head 650kg



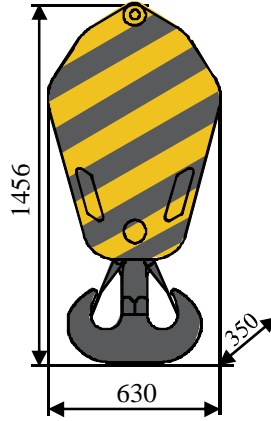
Single top 80kg



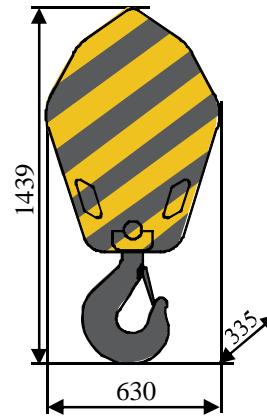
Dimensions of parts to be transported



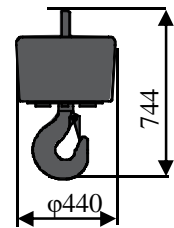
130t Hook block
1200kg



60t Hook block
580kg

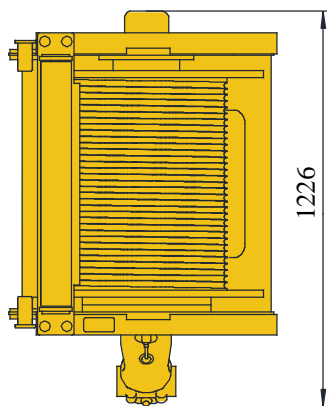
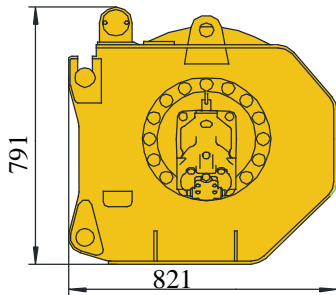


25t Hook block
400kg

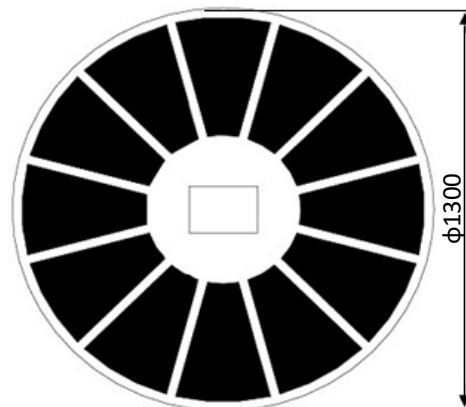
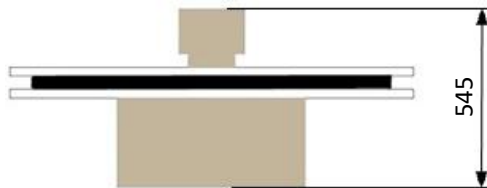


11t Hook block
218kg

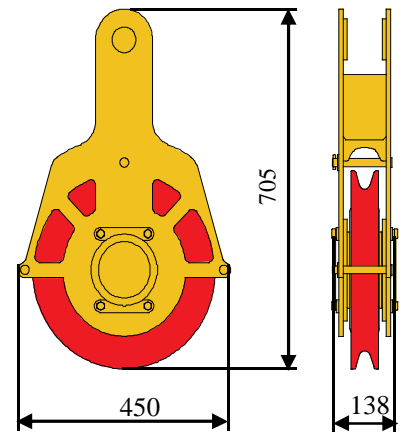
Auxiliary winch (rope included)
1409kg



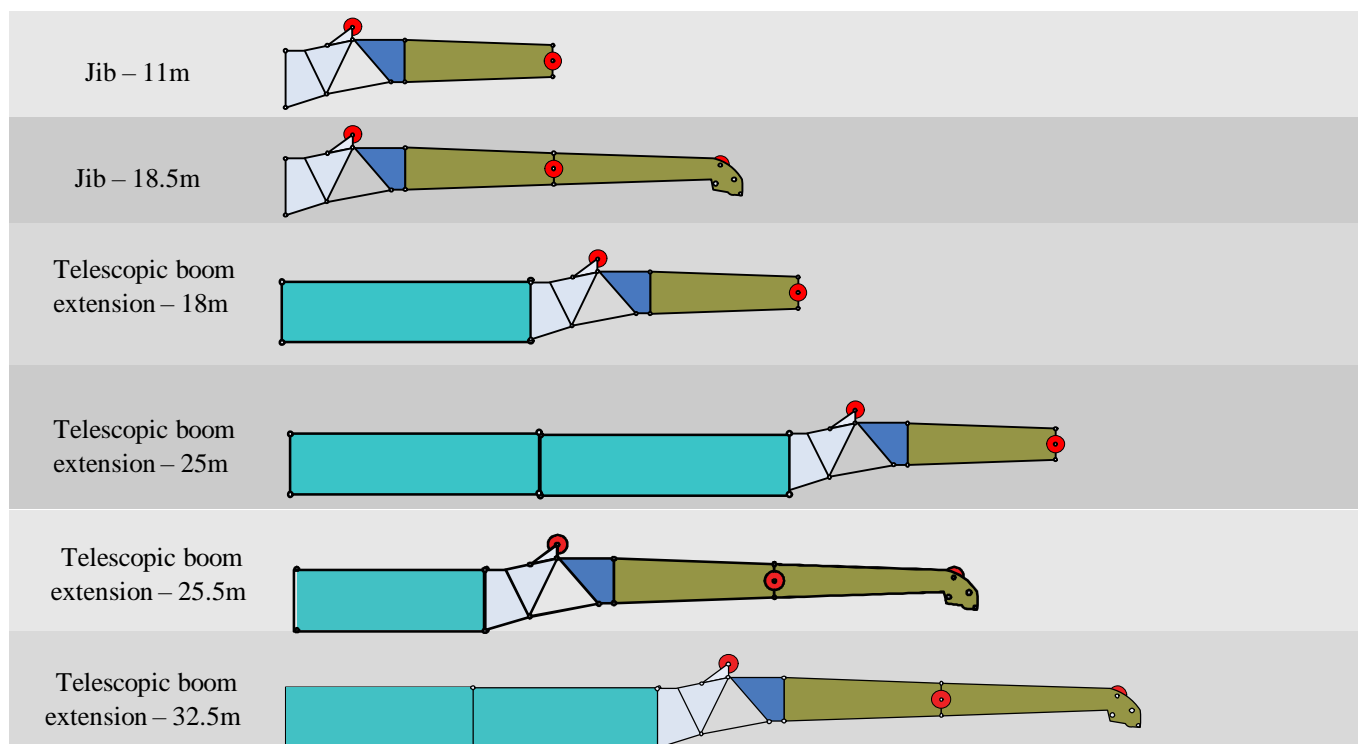
Hose reel 270kg








Additional sheave block 40kg



Boom / Jib combinations



Component	Structure	Size (L×W×H) (mm)	Weight (kg)
Connecting bracket		2070×810×1570	360
Rotating bracket		3520×680×1380	381
Telescopic boom extension		7100*810*1460	640
First jib section assembly		7140×610×970	616
Second jib section assembly		7370×430×660	364

Boom / Jib combinations



Boom

T: 12.3~66 m

Jib

T: 12.3~61.7m

J: 11/18.5 m

Boom extension

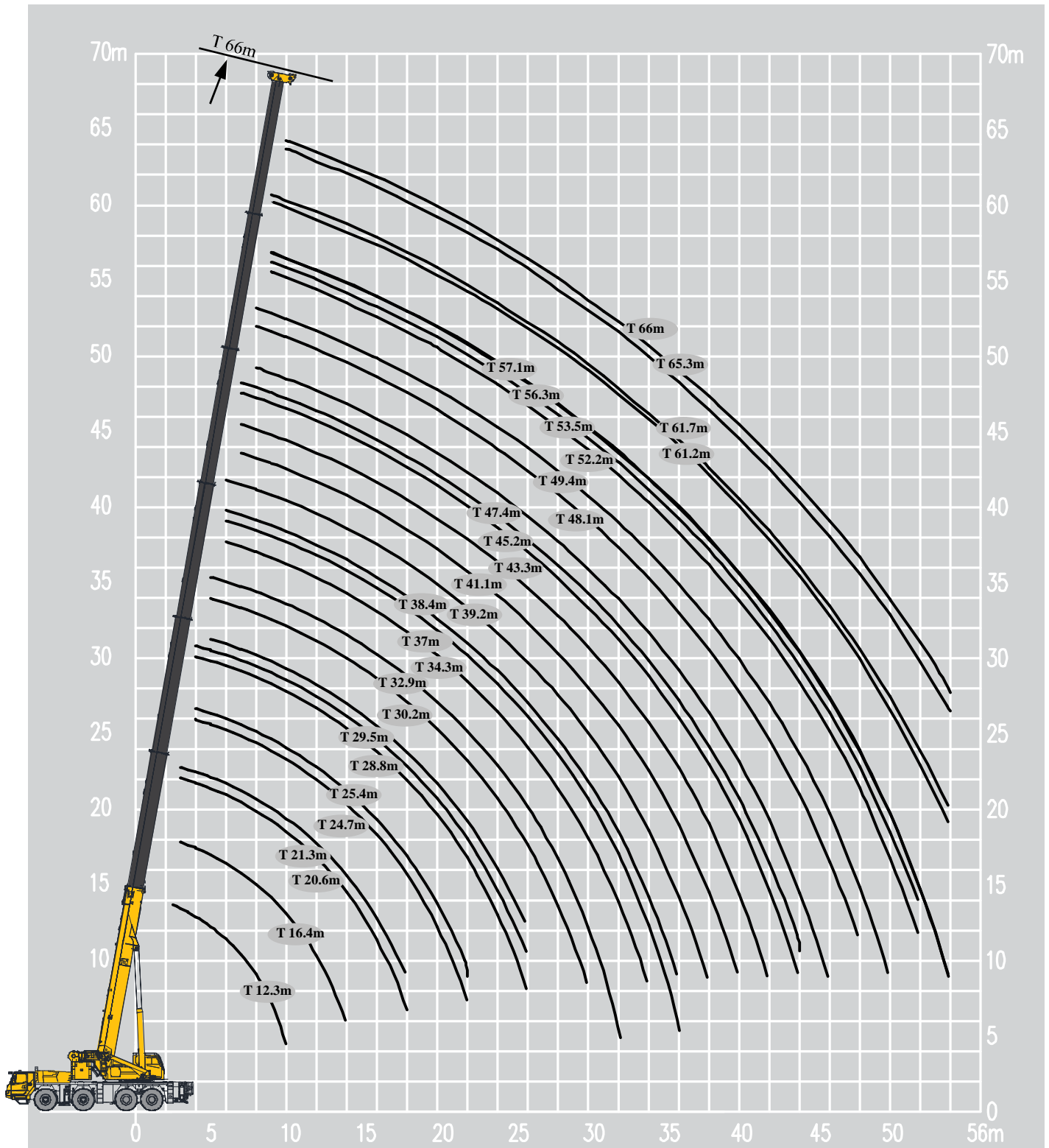
T: 12.3~61.7m

I: 14 m

J: 11/18.5 m


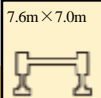

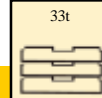

Lifting height chart

Boom




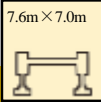

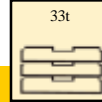

Lifting capacities

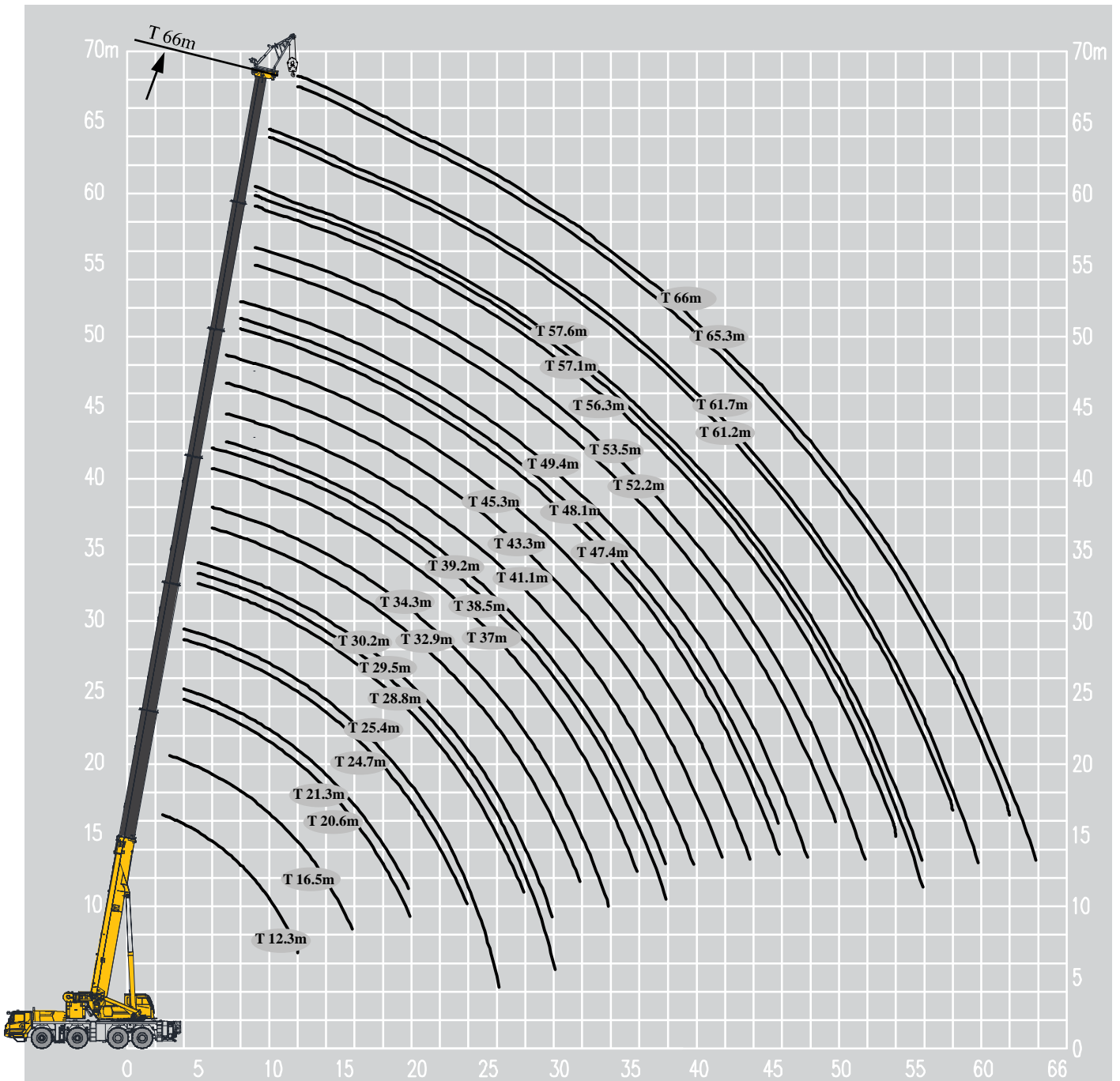
T 32.9~48.1m

	    										
	32.9m	34.3m	37m	38.4m	39.2m	41.1m	43.3m	45.2m	47.4m	48.1m	
5	46.9	24.0									5
6	42.5	22.6	40.8	21.5	21.5	40.3					6
7	38.5	21.0	38.7	20.5	20.4	36.8	16.0	29.0	17.3		7
8	35.4	19.5	34.2	19.4	19.4	33.1	16.0	29.0	16.5	18.5	8
9	32.6	18.2	31.4	18.3	18.3	30.4	15.7	27.4	15.8	17.3	9
10	30.1	16.9	29.7	17.2	17.2	27.6	15.3	26.1	15.0	15.9	10
12	25.6	14.7	26.0	15.3	15.2	24.2	14.5	22.7	13.5	13.8	12
14	22.1	13.2	21.6	13.7	13.7	20.7	13.7	19.6	12.4	12.1	14
16	18.6	11.8	17.6	12.4	12.3	17.5	12.9	16.5	11.5	10.7	16
18	15.9	10.7	15.2	11.3	11.3	14.7	12.1	14.4	10.7	9.6	18
20	13.5	9.7	13.4	10.3	10.4	12.9	11.4	12.6	9.9	8.6	20
22	11.5	8.9	11.8	9.6	9.6	11.4	10.7	11.4	9.3	7.8	22
24	9.9	8.2	10.4	8.9	8.9	9.9	9.9	9.9	8.7	7.1	24
26	8.9	7.6	9.1	8.3	8.2	8.6	9.0	8.6	8.2	6.4	26
28	8.0	7.1	8.0	7.7	7.7	7.5	8.0	7.6	7.3	6.0	28
30	7.2	6.6	7.1	7.2	7.2	6.7	7.0	6.7	6.5	5.5	30
32		4.8	6.3	6.7	6.7	6.1	6.3	5.9	5.8	5.1	32
34			5.6	6.1	6.1	5.7	5.6	5.3	5.2	4.7	34
36				4.6	5.5	5.2	5.0	4.9	4.7	4.3	36
38						4.8	4.5	4.5	4.2	4.1	38
40							4.0	4.1	3.8	3.7	40
42							3.6	3.4	3.4	3.5	42
44									3.1	3.2	44

Lifting capacities

T 49.4~66m

	    										
	49.4m	52.2m	53.5m	56.3m	57.1m	57.6m	61.2m	61.7m	65.3m	66m	
8	23.7	13.9									8
9	23.8	13.6	18.2								9
10	23.2	13.2	18.2	12.4	12.3	14.0	11.2	11.4	9.2		10
12	21.2	12.6	18.0	11.7	11.6	14.2	10.7	11.4	9.0	9.0	12
14	18.8	11.9	16.4	11.0	10.9	14.3	10.3	11.2	9.0	8.8	14
16	16.4	11.2	15.0	10.4	10.2	13.3	9.8	11.1	8.8	8.6	16
18	13.9	10.5	13.2	9.9	9.8	12.0	9.5	10.5	8.6	8.3	18
20	11.6	9.9	11.4	9.3	9.3	10.9	9.1	10.0	8.4	8.0	20
22	10.0	9.3	10.2	8.9	8.8	9.8	8.6	9.2	8.0	7.6	22
24	8.9	8.6	8.9	8.3	8.2	8.7	8.1	8.1	7.5	7.1	24
26	8.1	7.8	8.1	7.3	7.3	7.6	6.8	7.2	7.1	6.6	26
28	7.2	6.9	7.3	6.4	6.4	6.7	6.1	6.3	6.2	6.1	28
30	6.4	6.1	6.5	5.7	5.7	6.1	5.4	5.7	5.4	5.3	30
32	6.0	5.4	5.7	5.0	5.0	5.5	4.7	5.0	4.7	4.7	32
34	5.4	4.8	5.2	4.5	4.4	4.8	4.2	4.4	4.1	4.1	34
36	4.8	4.3	4.7	4.0	3.9	4.3	3.7	3.8	3.6	3.6	36
38	4.4	3.9	4.1	3.5	3.5	3.8	3.2	3.3	3.2	3.1	38
40	3.9	3.5	3.7	3.1	3.1	3.3	2.9	2.9	2.8	2.7	40
42	3.4	3.1	3.2	2.8	2.8	2.9	2.5	2.5	2.4	2.4	42
44	3.1	2.8	2.9	2.5	2.5	2.6	2.2	2.2	2.1	2.0	44
46	2.8	2.5	2.6	2.2	2.2	2.3	1.9	1.8	1.8	1.7	46
48		2.2	2.3	1.9	1.9	1.9	1.6	1.5	1.5	1.5	48
50			1.8	1.7	1.7	1.6	1.4	1.3	1.2	1.2	50
52				1.5	1.5		1.2		1.0	1.0	52
54							0.9		0.8	0.8	54



Lifting capacities

T 12.3~32.9m

	12.3-32.9m		7.6m×7.0m		360°		33t		EN		
	12.3m	16.5m	20.6m	21.3m	24.7m	25.4m	28.8m	29.5m	30.2m	32.9m	
3	30										3
3.5	30										3.5
4	29.1	30	30	23.6	30	22.3					4
4.5	27.5	29.8	30	22.7	30	21.3					4.5
5	25.7	28.8	30	21.8	30	20.4	30	17.6	17		5
6	23	27	28.7	19.9	29.7	18.4	30	16.1	15.5	30	6
7	21.2	24.5	27.3	18.2	28.4	16.7	29.1	14.6	14	29.5	7
8	19.4	22.6	25.4	16.6	27.1	15.7	28.2	13.4	12.8	28.6	8
9	17.6	20.8	23.7	15.5	25.6	14.5	26.5	12.2	11.8	27.1	9
10	16.7	19.7	22.1	14.6	23.9	13.6	25.5	11.5	10.9	26	10
12	15	17.1	19.6	12.8	21.6	11.8	22.8	9.9	9.5	22.7	12
14		16.3	17.7	11.3	19.3	10.4	19.4	8.9	8.6	19.4	14
16		14.6	15.9	9.9	17.5	9.3	17	8.1	7.7	16.8	16
18			15	9.4	15	8.6	15	7.3	6.8	15	18
20			13.1	8.3	13.6	7.8	13	6.3	6	13	20
22					11.8	7.2	11.6	5.7	5.4	11.3	22
24					10.2	6.6	10.1	5.2	4.9	9.7	24
26						5	8.8	4.8	4.5	8.4	26
28							7.7	4.4	4.1	7.5	28
30								4	3.8	6.6	30
32										5.8	32

Lifting capacities

T 34.3~49.4m

	34.3-49.4m		7.6m × 7.0m		360°		33t		EN		
	34.3m	37m	38.5m	39.2m	41.1m	43.3m	45.3m	47.4m	48.1m	49.4m	
6	15.4	30	14.2								6
7	14.2	29.4	13.3	12.8	29.2	13.9	25.1				7
8	13	28.6	12.3	12	27.5	13	24.3	13.2	13.1	18.2	8
9	11.9	27.8	11.3	11.1	25.7	12.2	23	12.5	12.3	18.2	9
10	11	25.1	10.5	10.3	23.8	11.3	21.3	11.7	11.6	18.2	10
12	9.6	22.1	9.1	9	21	9.8	18.4	10.2	10.1	16.8	12
14	8.6	18.5	8.2	8.1	18.3	8.7	16.4	9.1	9.1	14.6	14
16	7.8	15.9	7.3	7.1	15.9	8	14.6	8.2	8.1	12.9	16
18	6.9	14.1	6.4	6.3	13.2	7.1	13.1	7.4	7.3	11.6	18
20	6	12.1	5.6	5.5	11.3	6.2	11.3	6.5	6.4	10	20
22	5.4	10.4	5.1	4.9	10.4	5.7	10	5.9	5.9	8.8	22
24	4.9	9.4	4.6	4.5	9	5.2	8.6	5.4	5.3	7.9	24
26	4.5	8.2	4.1	4.1	8	4.7	7.7	4.9	4.8	7.2	26
28	4.1	7.2	3.8	3.7	7	4.3	6.6	4.4	4.3	6.5	28
30	3.8	6.3	3.4	3.4	6	4	5.9	4.1	4	5.8	30
32	3.5	5.5	3.2	3.1	5.5	3.7	5.3	3.9	3.6	5	32
34	3.1	4.7	2.8	2.8	4.8	3.4	4.5	3.5	3.5	4.2	34
36		4	2.6	2.5	4.1	3.1	4.2	3.3	3.2	4.1	36
38			2.4	2.3	3.6	2.9	3.8	3	3.1	3.8	38
40					3	2.6	3.2	2.8	2.7	3.5	40
42						2.4	2.8	2.6	2.6	3	42
44							2.5	2.4	2.4	2.6	44
46								2.3	2.2	2.3	46
48										2	48

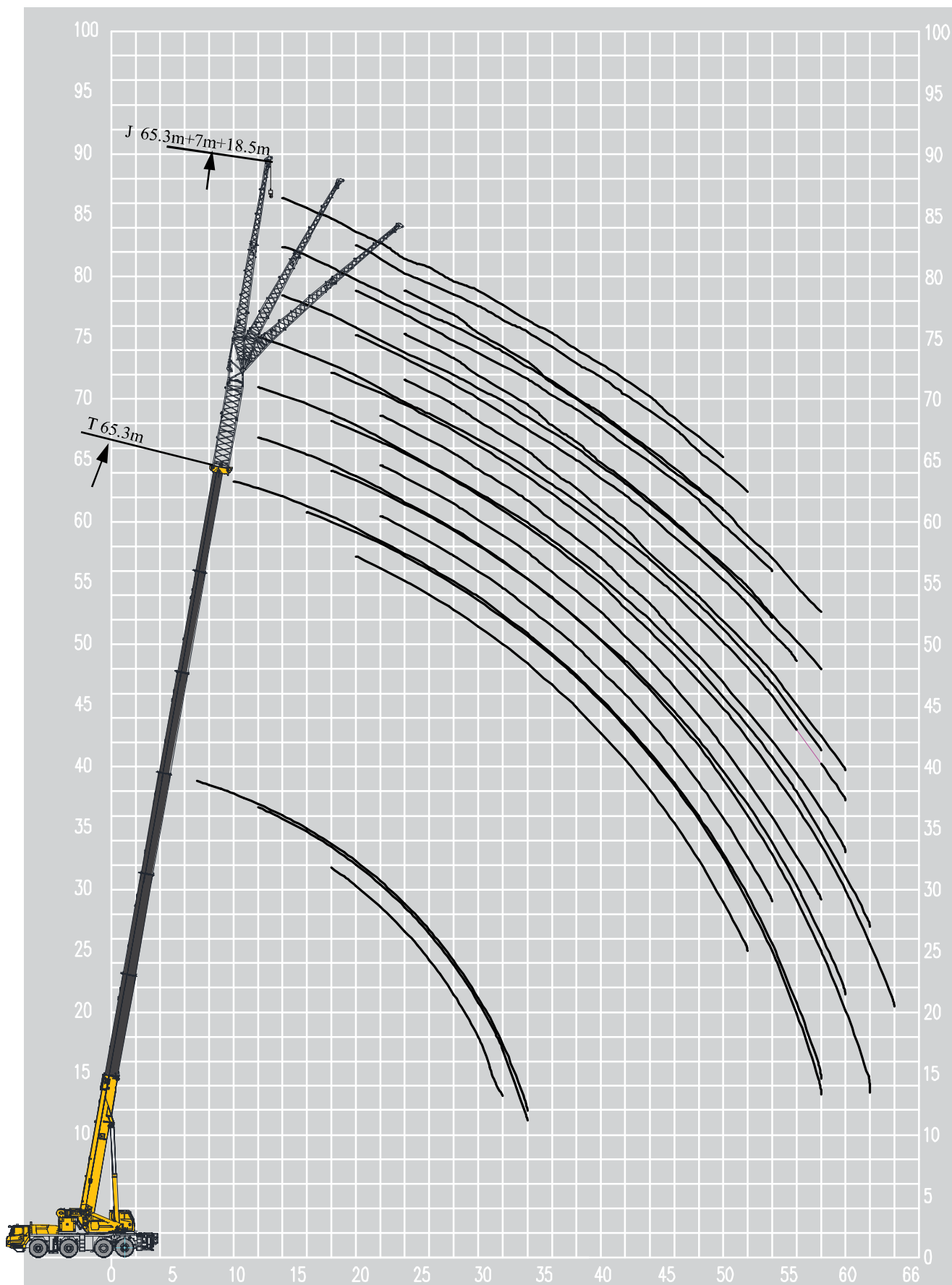
Lifting capacities

T 52.2~66m

	52.2-66m		7.6m×7.0m		360°		33t		EN		
	52.2m	53.5m	56.3m	57.1m	57.6m	61.2m	61.7m	65.3m	66m		
9	12.8	13.3								9	
10	12.8	15.3	11.2	10.6	12					10	
12	12.6	15.3	11.2	10.6	12	9.1	9.7	7.8		12	
14	11.2	14.3	10.8	10.6	12	9.1	9.7	7.7	7.5	14	
16	9.7	12.8	9.9	9.7	11.2	9.3	9.7	7.5	7.4	16	
18	8.7	11.3	8.6	8.6	10.1	8.9	9.3	7.4	7.2	18	
20	7.7	9.6	7.6	7.4	8.8	7.7	8.1	6.9	6.7	20	
22	6.8	8.6	6.9	6.8	7.8	6.8	7.2	6.6	6.5	22	
24	6.2	7.8	6.1	6.1	7	6.2	6.4	5.9	5.8	24	
26	5.5	6.9	5.6	5.6	6.2	5.7	5.8	5.4	5.3	26	
28	5	6.3	5.1	5.1	5.7	5	5.3	4.7	4.8	28	
30	4.6	5.8	4.5	4.5	5.2	4.6	4.8	4.3	4.3	30	
32	4.3	5.3	4.1	4	4.7	4.1	4.3	3.8	3.8	32	
34	3.8	4.8	3.7	3.7	4.3	3.7	3.8	3.4	3.4	34	
36	3.5	4.2	3.4	3.3	3.8	3.2	3.4	3	3	36	
38	4.1	3.8	2.9	3	3.5	3	3.1	2.7	2.7	38	
40	3.5	3.2	3.3	3.3	2.9	2.6	2.6	2.4	2.3	40	
42	3.1	2.8	2.9	2.8	2.5	2.3	2.2	2.1	2.1	42	
44	2.7	2.4	2.5	2.4	2.1	2.1	1.8	1.8	1.8	44	
46	2.3	2.1	2.1	2.1	1.7	1.8	1.4	1.5	1.4	46	
48	2	1.7	1.8	1.8	1.4	1.4	1.1	1.2	1.1	48	
50	1.7	1.4	1.5	1.5	1.1	1.1	0.8	0.9	0.8	50	
52		1.2	1.2	1.2	0.8	0.9		0.6		52	
54			1	0.9	0.6	0.6				54	
56				0.7						56	



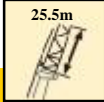

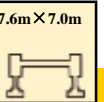

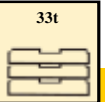


Lifting height chart

Boom






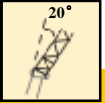
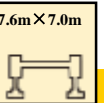

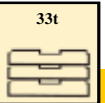


Lifting capacities

T 12.3~61.7m

															
	12.3m	37m	37m	41.1m	45.2m	49.4m	53.5m	57.6m	61.7m						
7	6.4													7	
8	6.4													8	
9	6.4													9	
10	6.4	5.5	5.6											10	
12	6.4	5.4	5.6	5.3	5.0									12	
14	6.2	5.3	5.6	5.2	4.9	4.6	4.1	3.9	3.1					14	
16	5.4	5.3	5.6	5.2	4.8	4.6	4.1	3.8	3.1					16	
18	4.8	5.3	5.6	5.2	4.8	4.5	4.0	3.7	3.1					18	
20	4.3	5.3	5.6	5.2	4.8	4.4	4.0	3.6	3.1					20	
22	3.9	5.3	5.6	5.2	4.8	4.4	4.0	3.5	3.1					22	
24	3.5	5.3	5.6	5.2	4.8	4.4	4.0	3.5	3.0					24	
26	3.1	5.3	5.4	5.2	4.8	4.4	4.0	3.5	2.9					26	
28	2.9	5.0	5.0	5.2	4.8	4.4	4.0	3.5	2.9					28	
30	2.6	4.6	4.7	4.8	4.8	4.4	3.9	3.4	2.9					30	
32	2.5	4.2	4.3	4.5	4.6	4.1	3.6	3.3	2.9					32	
34	2.3	4.0	4.0	4.2	4.2	3.7	3.2	3.0	2.9					34	
36		3.8	3.8	4.0	3.8	3.3	2.9	2.6	2.6					36	
38		3.6	3.6	3.9	3.4	2.9	2.6	2.4	2.3					38	
40		3.4	3.2	3.4	3.1	2.7	2.4	2.2	2.1					40	
42		3.2	2.8	2.9	2.6	2.4	2.2	2.0	1.9					42	
44		3.0	2.4	2.5	2.2	2.1	1.9	1.8	1.8					44	
46		2.6	2.0	2.1	1.9	1.7	1.7	1.6	1.6					46	
48		2.2	1.7	1.8	1.5	1.4	1.4	1.4	1.4					48	
50		1.9	1.3	1.5	1.2	1.1	1.1	1.1	1.2					50	
52		1.6	1.1	1.2	0.9	0.8	0.8							52	
54		1.4	0.8	0.9	0.7	0.5	0.5							54	
56		1.1	0.6	0.7										56	
58		0.9												58	
臂长组合 Combinations	0000000	111111	211110	211111	221111	222111	222211	222221	222222	臂长组合 Combinations					




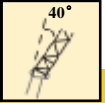
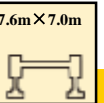

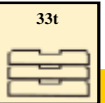


Lifting capacities

T 12.3~61.7m

															
	12.3m	37m	37m	41.1m	45.2m	49.4m	53.5m	57.6m	61.7m						
12	3.9													12	
14	3.7													14	
16	3.3	4.3	4.2											16	
18	3.0	3.9	3.9	4.0	3.9	3.9								18	
20	2.8	3.6	3.7	3.8	3.8	3.8	3.7	3.8	3.1					20	
22	2.6	3.5	3.4	3.5	3.7	3.7	3.6	3.7	3.1					22	
24	2.4	3.2	3.3	3.4	3.5	3.6	3.5	3.6	3.1					24	
26	2.2	3.0	3.0	3.2	3.2	3.3	3.3	3.4	3.0					26	
28	2.0	2.9	2.9	3.0	3.1	3.1	3.2	3.3	3.0					28	
30	1.9	2.8	2.7	2.8	3.0	3.0	3.1	3.2	3.0					30	
32	1.8	2.6	2.6	2.7	2.8	2.9	3.0	3.1	3.0					32	
34	1.8	2.5	2.5	2.5	2.7	2.8	2.9	3.0	2.9					34	
36		2.4	2.4	2.4	2.6	2.7	2.8	2.8	2.6					36	
38		2.3	2.3	2.3	2.5	2.6	2.6	2.6	2.4					38	
40		2.1	2.1	2.3	2.4	2.4	2.5	2.3	2.2					40	
42		2.1	2.1	2.2	2.2	2.3	2.3	2.1	2.0					42	
44		2.0	2.0	2.1	2.1	2.2	2.0	1.9	1.8					44	
46		2.0	2.0	2.0	2.1	2.1	1.9	1.7	1.7					46	
48		1.9	1.9	2.0	2.0	1.9	1.6	1.6	1.4					48	
50		1.9	1.7	1.8	1.6	1.5	1.5	1.4	1.3					50	
52		1.8	1.3	1.5	1.3	1.2	1.2	1.2	1.1					52	
54		1.6	1.0	1.2	1.0	0.9	0.9	1.0						54	
56		1.3	0.7	0.9	0.7	0.6	0.6							56	
58		1.0		0.7										58	
臂长组合 Combinations	0000000	111111	211110	211111	221111	222111	222211	222221	222222	臂长组合 Combinations					

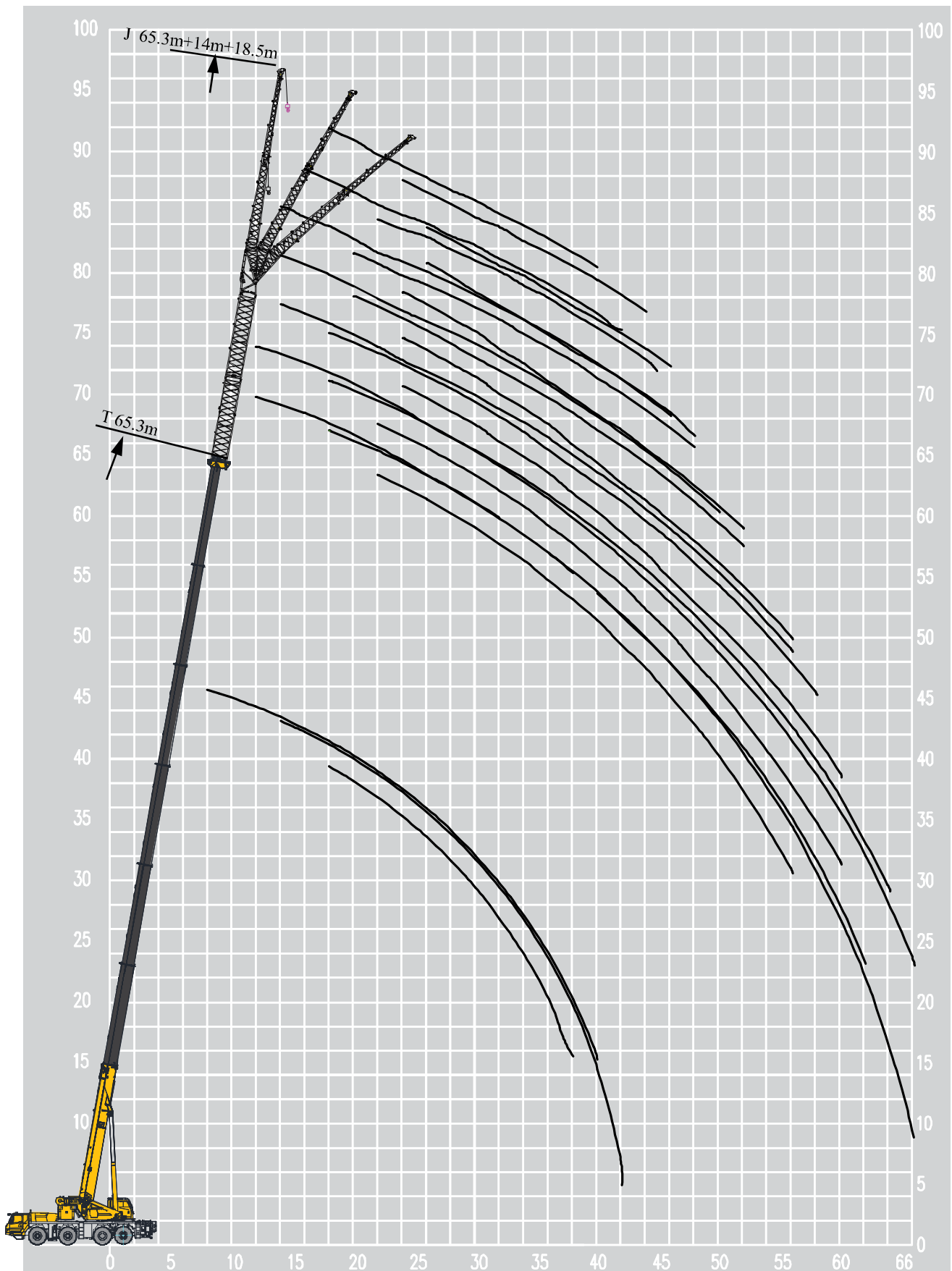
Lifting capacities

T 12.3~61.7m

															
	12.3m	37m	37m	41.1m	45.2m	49.4m	53.5m	57.6m	61.7m						
18	2.1													18	
20	2.1	2.2	2.4											20	
22	2.0	2.2	2.3	2.3	2.4	2.4								22	
24	1.9	2.2	2.2	2.2	2.3	2.3	2.5	2.5	2.6					24	
26	1.8	2.1	2.1	2.1	2.1	2.2	2.4	2.4	2.5					26	
28	1.8	2.1	2.1	2.1	2.1	2.1	2.2	2.3	2.4					28	
30	1.7	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.3					30	
32	1.6	1.9	1.9	1.9	2.0	1.9	1.9	2.0	2.0					32	
34		1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9					34	
36		1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9					36	
38		1.7	1.7	1.8	1.8	1.8	1.8	1.9	1.9					38	
40		1.7	1.7	1.6	1.8	1.8	1.8	1.8	1.8					40	
42		1.7	1.7	1.6	1.7	1.8	1.8	1.8	1.8					42	
44		1.6	1.6	1.6	1.7	1.6	1.8	1.8	1.8					44	
46		1.6	1.6	1.6	1.7	1.6	1.7	1.8	1.8					46	
48		1.6	1.6	1.6	1.6	1.6	1.7	1.7	1.6					48	
50		1.6	1.6	1.6	1.6	1.6	1.7	1.5	1.5					50	
52		1.6	1.4	1.6	1.5	1.5	1.5	1.4	1.4					52	
54				1.3	1.2	1.1	1.2	1.3	1.2					54	
56					0.9	0.8	0.9	1.0	1.0					56	
58					0.6	0.5	0.6	0.7	0.8					58	
臂长组合 Combinations	0000000	111111	211110	211111	221111	222111	222211	222221	222222	臂长组合 Combinations					

Lifting height chart

Boom



Lifting capacities

T 12.3~61.7m





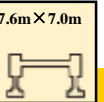

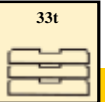


	      										
	12.3m	37m	37m	41.1m	45.2m	49.4m	53.5m	57.6m	61.7m		
8	5.3									8	
9	5.3									9	
10	5.3									10	
12	5.3	4.7	4.9	4.8						12	
14	5.3	4.7	4.9	4.6	4.1	3.8	3.4			14	
16	5.3	4.7	4.9	4.5	4.1	3.7	3.3	3.1	2.0	16	
18	5.3	4.7	4.9	4.5	4.1	3.7	3.3	3.1	2.0	18	
20	5.2	4.7	4.9	4.5	4.1	3.7	3.3	3.1	2.0	20	
22	4.6	4.7	4.9	4.5	4.1	3.7	3.3	3.0	1.9	22	
24	4.1	4.7	4.9	4.5	4.1	3.7	3.3	2.9	1.9	24	
26	3.8	4.4	4.9	4.5	4.1	3.7	3.3	2.9	1.9	26	
28	3.4	4.2	4.9	4.3	4.1	3.7	3.3	2.9	1.9	28	
30	3.2	3.9	4.9	4.0	4.0	3.7	3.3	2.9	1.9	30	
32	3.0	3.7	4.7	3.8	3.8	3.6	3.1	2.8	1.9	32	
34	2.8	3.4	4.4	3.6	3.6	3.2	2.7	2.5	1.9	34	
36	2.7	3.3	4.2	3.3	3.2	2.8	2.5	2.2	1.9	36	
38	2.5	3.1	3.8	3.2	3.0	2.5	2.2	2.0	1.8	38	
40	2.3	2.9	3.3	3.0	2.6	2.2	2.0	1.7	1.6	40	
42		2.7		2.8	2.3	1.9	1.7	1.5		42	
44		2.5		2.5	2.2	1.8	1.4			44	
46		2.4		2.1	1.9	1.5	1.2			46	
48		2.3		1.8	1.5	1.3				48	
50		1.9		1.5	1.2	1.1				50	
52		1.6		1.2	0.9					52	
54		1.4		0.9	0.7					54	
56		1.1		0.7						56	
58		0.9								58	
60		0.7								60	
62		0.5								62	
臂长组合 Combinations	0000000	111111	211110	211111	221111	222111	222211	222221	222222	臂长组合 Combinations	






















Table of main technical parameters

Category	Item	Unit	Parameter	
Dimensions	Dimension (length ×width ×height)	mm	14327×2750×3890 (385/95R25) 15288×2750×3940 (445/95R25) 15288×2850×3940 (525/80R25)	Dimension (length ×width ×height)
	Wheel base	mm	2500+2850+1700	Wheel base
	Track (Front/ Rear)	mm	2340 (385/95R25) 2296 (445/95R25) 2308 (525/80R25)	Track (Front/ Rear)
	Front/ Rear overhang	mm	2615/2385	Front/ Rear overhang
	Front/ Rear extension	mm	1790/485	Front/ Rear extension
Weight	Max. permissible total weight	kg	48000	Max permissible total weight
	Axle load	1st axle	kg	12000
		2nd axle	kg	12000
		3rd axle	kg	12000
		4th axle	kg	12000
Power	Engine model	—	OM471LA (EU Stage V)	
	Engine rated power/rpm	kW/(r/min)	360/1600	
	Max. net power/rpm	kW/(r/min)	360/1600	
	Engine rated torque/rpm	N.m/(r/min)	2400/1300	
Travel	Max. travel speed	km/h	80	
	Min. stable travel speed	km/h	2	
	Min. turning diameter	m	≤17 (Tight-turning radius mode, four-axle steering) ; ≤21 (Normal road mode, four-axle steering)	
	Min. turning diameter at boom tip	m	≤21.3 (Tight-turning radius mode, four-axle steering) ; ≤25.3 (Normal road mode, four-axle steering)	
	Min. ground clearance	mm	335 (385/95R25) 385 (445/95R25、525/95R25)	
	Approach angle	°	18 (385/95R25) 19 (445/95R25、525/95R25)	
	Departure angle	°	11 (385/95R25) 12 (445/95R25、525/95R25)	
	Braking distance (at 30 km/h)	m	≤10	
	Max. grade ability	%	60	
	Fuel consumption per 100 km	L	50	
Noise	Exterior noise level	dB(A)	84 (ECE R51-03)	
	Noise level at seated position	dB(A)	90	

Table of main technical parameters

Category	Item		Unit	Parameter	
Main performance	Max. total rated lifting capacity		t	120	
	Min. rated working radius		m	3	
	Turning radius at turntable tail	Counterweight	mm	4300	
		Auxiliary winch	mm	4480	
	Max. load moment	Base boom	kN.m	12.3	
		Fully-extended boom	kN.m	66	
		Fully-extended boom + Jib	kN.m	94.2	
	Outrigger span	Longitudinal	m	7.6	
		Lateral	m	7.0/5.95/5.0/3.83	
	Hoist height	Base boom	m	13.4	
		Fully-extended boom	m	66.5	
		Fully-extended boom + Jib	m	94.5	
	Boom length	Base boom	m	12.3	
Fully-extended boom		m	66		
Fully-extended boom + Jib		m	94.2		
Jib offset angle		°	0、20、40		
Working speed	Boom raising time		s	≤60	
	Boom fully extended time		s	≤550	
	Max. slewing speed		r/min	≥1.45	
	Outrigger extending and retracting time	Outrigger beam	Retracting	s	≤25
			Extending	s	≤20
		Outrigger jack	Retracting	s	≤55
			Extending	s	≤45
Hoisting speed (single line, 4th layer, no load)	Main winch	m/min	≥135		
	Auxiliary winch	m/min	≥135		
Noise	Exterior noise level		dB (A)	≤109	
	Noise level at seated position		dB (A)	≤80	

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
	Standard		

Notes

1. The 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 radius 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 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. 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.
3. 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).



 **RONCO**
Construction Equipment & Engineering
Call 1800CRANES

XCA120_E All Terrain Crane

RONCO GROUP



1800CRANES
(08) 9459 6212

www.ronco.com.au
xcmg@ronco.com.au