XCA60_AU All Terrain Crane

Technical specifications

60 t

50 m

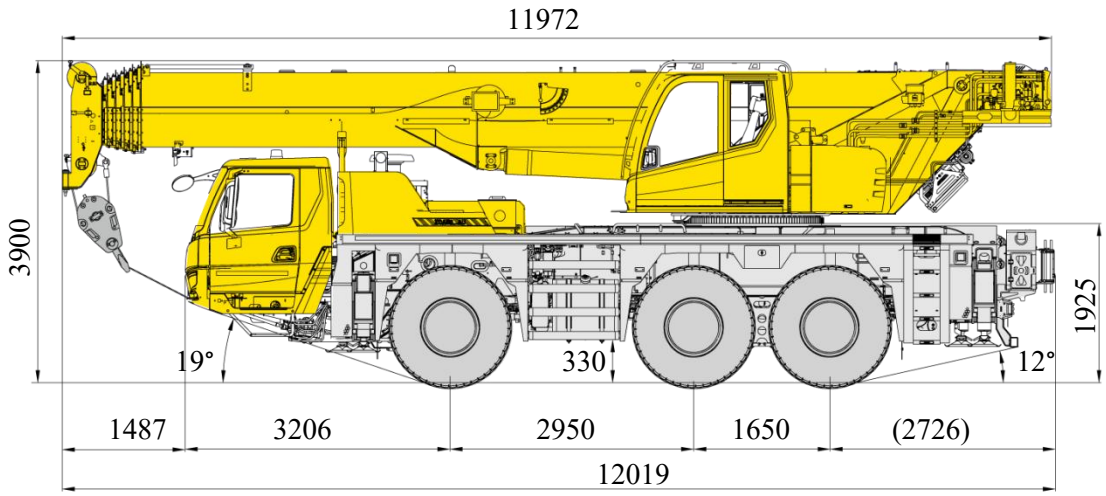
48 m

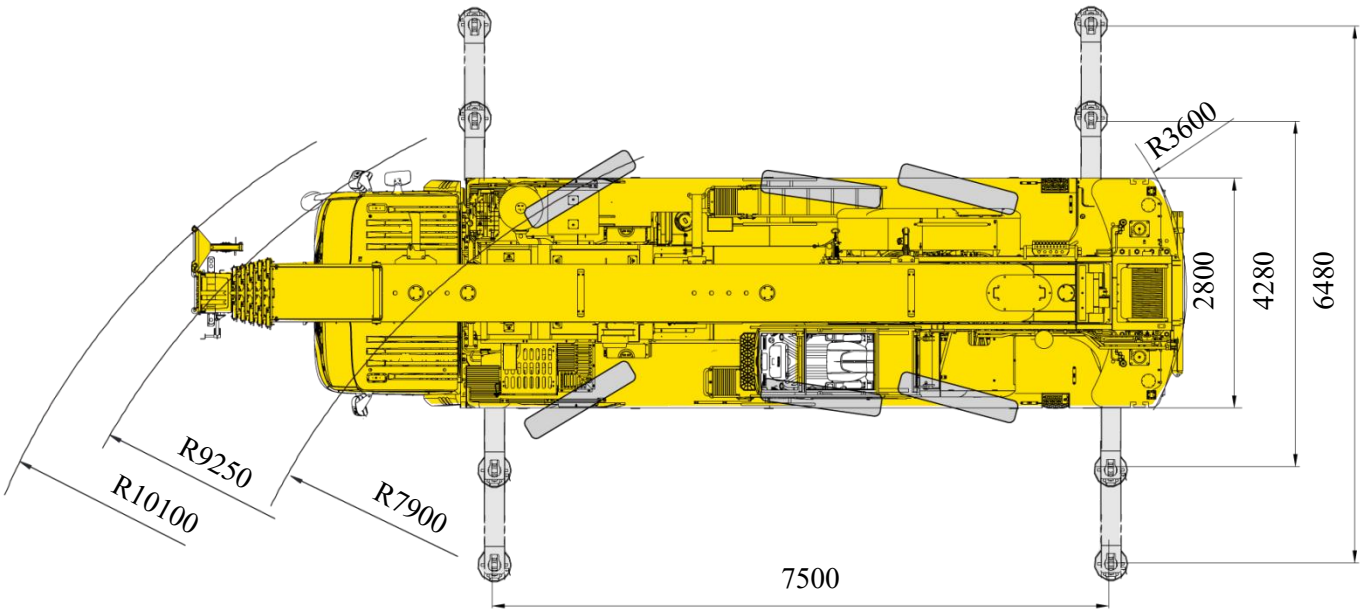
63.8 m

8th edition, May 2025

Contents

Dimensions


11972
3900
1925
19°
330
12°
1487
3206
2950
1650
(2726)
12019


R3600
2800
4280
6480
R9250
R10100
R7900
7500

Technical specifications

	Chassis
Frame	Designed and manufactured by XCMG, the frame is made of high-strength steel, and adopts rectangle cross-section with front opening.
Outriggers	H-type outrigger, outrigger beam is one-stage telescoping with push-pull outrigger float and two telescoping working position (fully-extended and half-extended) to satisfy various operation mode requirements. Outrigger control panel is controlled by CAN bus located at two sides of the chassis.
Engine	OM470LA, 6-cylinder diesel engine, Daimle, maximum net power/rpm: 280 kW/1700 rpm, maximum output torque/rpm: 1900 Nm/1300 rpm, emission standard: EU Stage IV/ Tier 4F. Fuel tank capacity: 260 L.
Transmission	American Allison automatic transmission with 6 forward gears and 1 reverse gear.
Axles	High strength integral axle. Drive/steer mode: 6×6×4.
Suspension	Hydro-pneumatic suspension system has good shock-absorbing effect. Various functions such as automatic leveling, moving up and down of suspension, switching over of locked and unlocked suspension and axles lifting and lowering are available.
Tires	Tire specifications: 525/80 R 25 (20.5 R 25).
Steering	Axle 1 mechanically steering and axles 2 and 3 electric-hydraulic proportional steering.
Brakes	Service brake: dual-circuit air pressure brake, acting on all wheels. Parking brake: spring-loaded brake, acting on the wheels of axles 1, 2 and 3. Auxiliary brake: engine in-cylinder brake.
Driver's cab	New full dimension steel structure cab is equipped with windshield offering outstanding field of view, electronic lifters of doors and windows, air suspension seats for driver and co-driver, electric-adjustable rearview mirrors, pneumatic multi-function steering wheel, 12.3-inch colorful central control screen, 4 loudspeakers and HVAC, etc.
Electrical system	24 V DC, with 2 sets of 12 V batteries in series.

Technical specifications

Superstructure

Structure	Designed and manufactured by XCMG, made of high strength steel.
Hydraulic system	The load-sensing plunger pump and gear pump are used to control hoisting of main and auxiliary winches, luffing, telescoping, slewing and auxiliary system. Load-sensing proportional multi-way directional valve is equipped. Wind-cooled hydraulic radiator is also applied.
Control system	Electric proportional control is adopted with distributed CAN bus control technology. Apart from the normal control functions, it also has the functions of real time monitoring, automatic fault diagnosis, intelligent boom control, function self-adaptability, and single cylinder pinning control, etc.
Winch system	Driven by a hydraulic motor, with built-in planetary gear reducer and normally closed brake fitted. Also equipped with: anti-disorder rope winding drum; rotation-resistant wire rope.
Slewing system	A single-row, four-point contact-ball external toothed slewing bearing is driven by hydraulic motor, with built-in planetary gear reducer and constant-closed brake equipped, and can continuously slew 360°. Power control or free slewing function as well as stepless speed regulation are available.
Operator's cab	Steel enclosed operator's cab tiltable up to 20°. Spacious interiors, expansive field of view, and abundant storage space. The cab features safety glass with no blind spots, an openable front window, and a 20 mm thickened, transparent roof window. Push-pull sliding door with remote controlled locks, protective grilles, remote control electric pull-out side pedal (with 3 control modes). Dual-motor wipers are fitted for the front and roof windows. 2.5 L kettle is also available. Stylish interior design. Sun screens for front, rear and side windows; double-layer sun screen for the roof window. Shock absorber and adjustable seat with leather + breathable mesh is equipped with seat belts. Dual-LED inner cab lights, and 12V vehicle-mounted refrigerator HMI control panel, 12-inch display, armrest, engine accelerator pedal, electric proportional slewing brake pedal, and engine ignition switch. Heating & air conditioning are available.
Safety devices	Hydraulic counterbalance valve, hydraulic relief valve, hydraulic two-way lock, LMI, display, central controller, length/angle sensor, oil pressure sensor. 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 speed of the wind.
Load moment indicator (LMI)	When the actual load moment is approaching the overloading value, audible and visual warning will be sent out, and the dangerous operation will be automatically cut off before overloading occurs. Overload memory function (black box) and fault diagnosis function are available.
Combined counterweigh t	Total weight is 13 t. Six counterweight combinations: 2.4 t, 3 t, 7.5 t, 7.9 t, 8.5 t, and 13 t.
Electrical system	DC 24 V, with 2 sets of 12 V batteries in series.
Boom	6-section boom with U-shaped cross-section, welded structure. Single-cylinder pinning telescoping system. 46%, 92% and 100% telescoping patterns are available. Boom length: 10.7 m ~ 50 m.
Auxiliary sheave	Installed at the boom top, used for single line operation. Its lifting performance is the same as that for boom, and the maximum lifting load does not exceed 4.5 t.
Fixed jib	Lattice jib, welded structure, three offset angles: 0°, 15°, 30°. Fixed jib length: 9.2m~16m.

Configuration and optional equipment

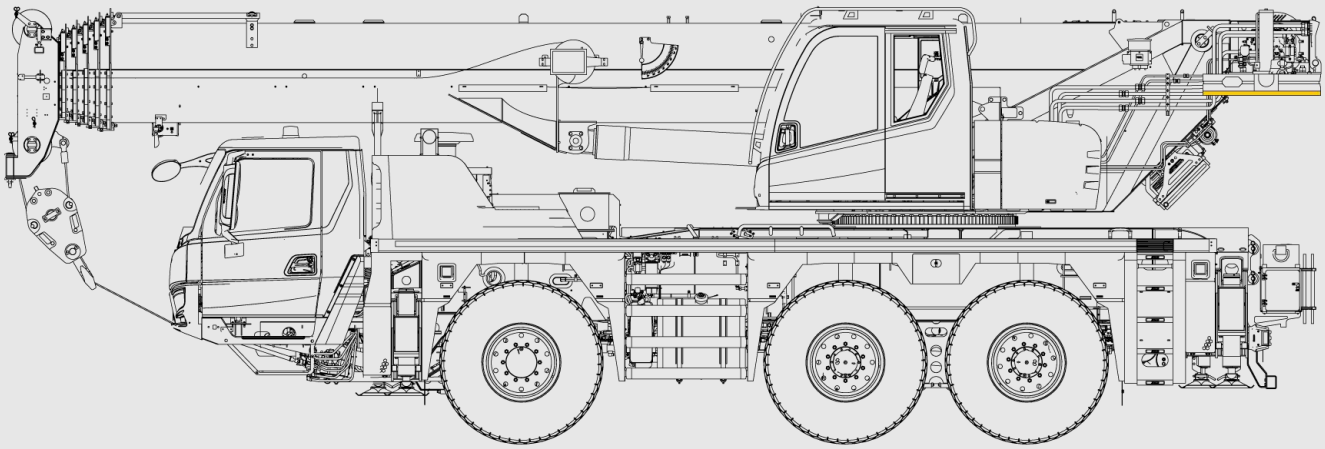
 Configuration	Function description
Standard	6-section boom of 50 m.

 Optional equipment	Component description
Hook block	46 t hook block.
Independent jib head	2.5 m, fitted at boom head for lifting operation.

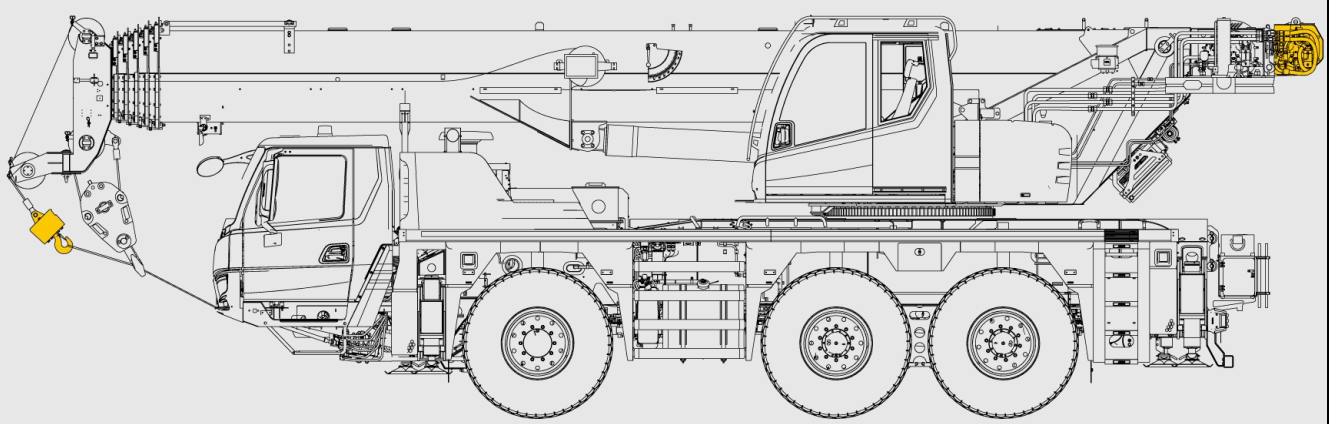
Weights

Axles	1	2	3	Total weight
t	12	12	12	≤36[1)]
t	12	12	12	≤36[2)]
t	14	17	17	≤48[3)]

1) Superstructure includes auxiliary sheave, jib bracket (without middle bracket 2nd section), 2.4 t counterweight, 0.6 t counterweight and 30.5 t hook block. Chassis includes supplied reserved box.
Jib, auxiliary winch, independent jib head, 46t hook block, 13.5t hook block, 5t hook block, 4.5t counterweight, 5.5t counterweight, and spare tire are excluded.
Driving/steering mode: 6×6×4; tire specification: 525/80 R 25 (20.5R25).

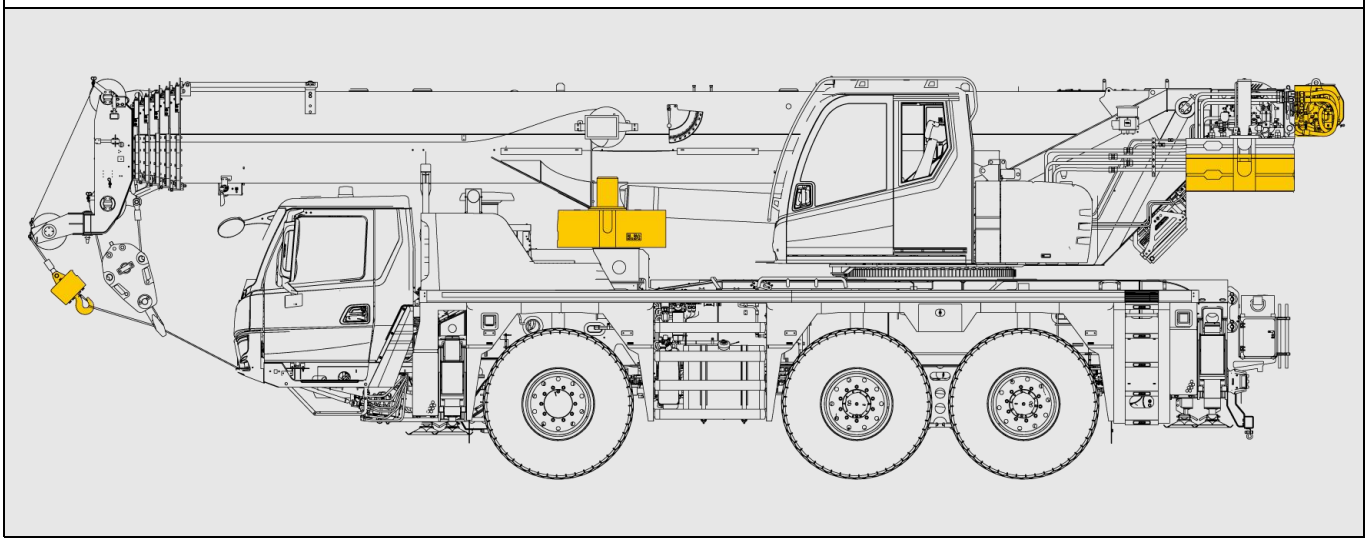


2) Superstructure includes auxiliary sheave, auxiliary winch, jib bracket (without middle bracket 2nd section), 2.4 t counterweight, 13.5 t hook block and 5 t hook block. Chassis includes supplied reserved box.
Jib, independent jib head, 46 t hook block, 30.5 t hook block, 0.6 t hook block, 4.5 t counterweight, 5.5 t counterweight, and spare tire are excluded.
Driving/steering mode: 6×6×4; tire specification: 525/80 R 25 (20.5R25).



Weights

3) Superstructure includes auxiliary sheave, auxiliary winch, jib, jib bracket, 0.6 t counterweight, 2.4 t counterweight, 4.5 t counterweight, 5.5 t counterweight, 46 t hook block and 5 t hook block (fixed in front of the driver's cab). Chassis includes supplied reserved box.
Independent jib head, 30.5t hook block, 13.5t hook block and spare tires are excluded.
Driving/steering mode: 6×6×4; tire specification: 525/80 R 25 (20.5R25).



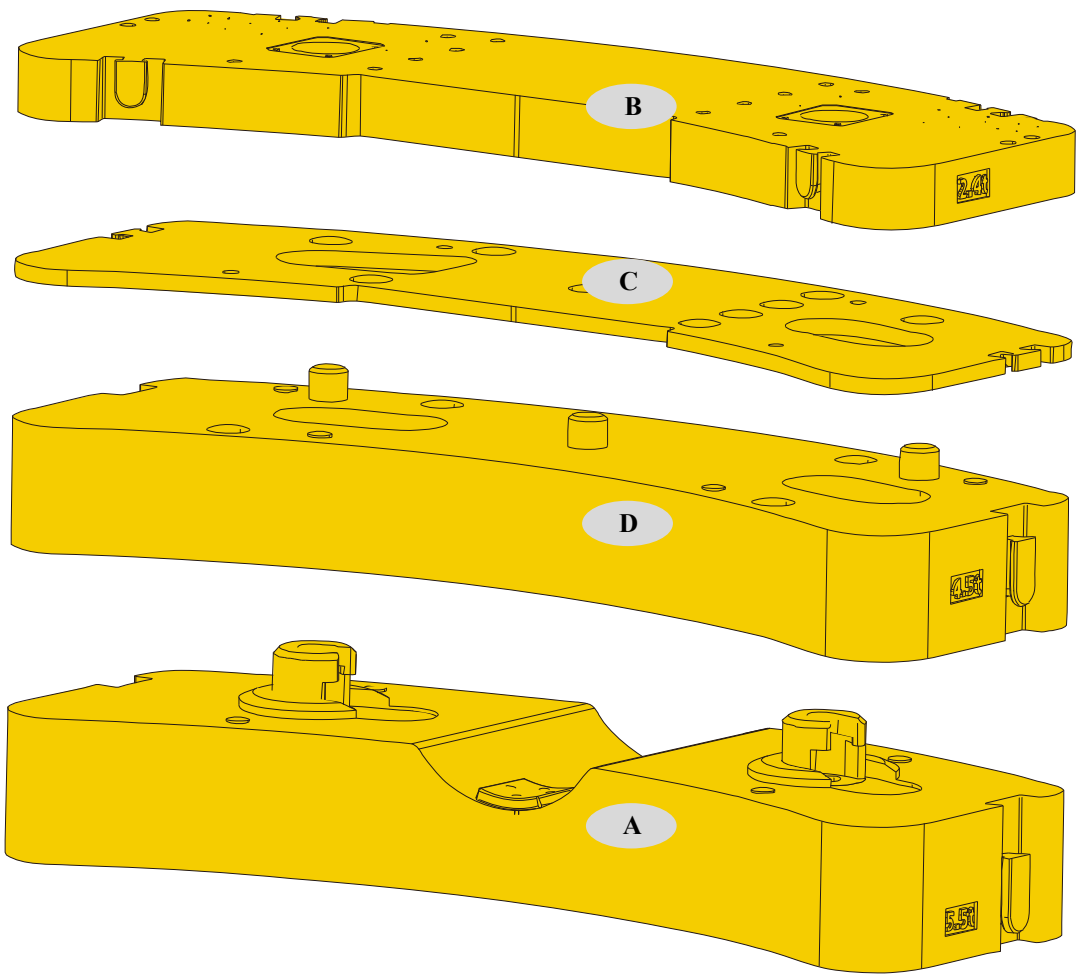
Hook block	Parts of line	Weight (kg)	Dimension (mm)	Remark
46 t	11	445	1238×489×547	Dual-hook
30.5 t	7	315	1196×470×324	Dual-hook
13.5 t	3	210	1044×470×234	Single hook
5 t	1	100	536×298×298	Single hook

Working speeds

525/80 R 25 (20.5 R 25)	2~85km/h	60%

	Max	F	ϕ	
①	0-135 m/min, single line, no load	44.1 kN	14 millimeters	220 m
③	0-135 m/min, single line, no load	44.1 kN	14 millimeters	140 m
	0-1.5 r/min			
	Approximate 60 seconds for boom luffing from -1° to 82°			
	Approximate 350 seconds for boom extending from 10.7 m to 50 m			

Counterweight

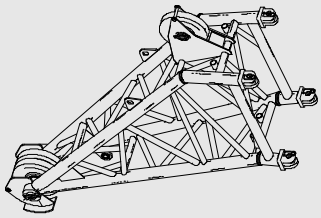
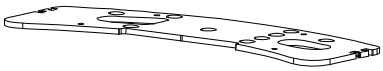
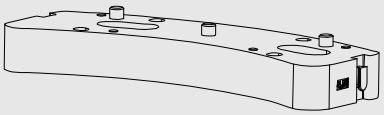
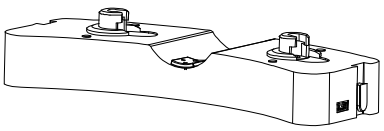
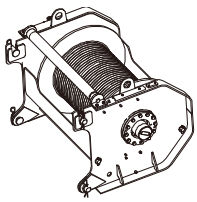
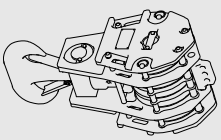
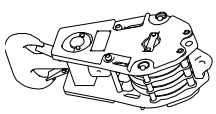
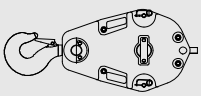


	A	B	C	D
Dimensions (L×W×H) (mm)	2760×1073×520	2760×1073×157	2760×1073×35	2760×1073×321
Weight (t)	5.5	2.4	0.6	4.5

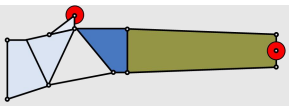
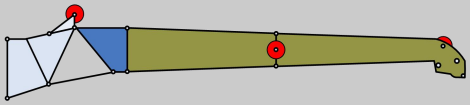
Operation modes	13 t	8.5 t	7.9 t	7.5 t	3 t	2.4 t
Combinations	A+B+C+D	A+B+C	A+B	B+C+D	B+C	B

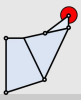
Note: the yellow counterweight slabs can be carried for short-distance jobsite transfer, while blue slabs cannot be carried for short-distance jobsite transfer.

Dimensions of parts to be transported

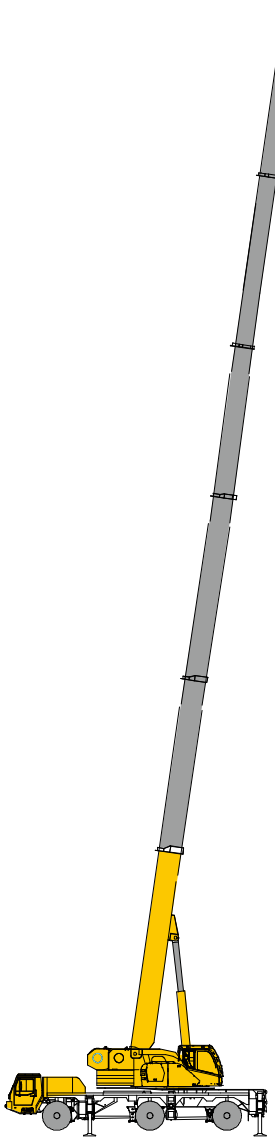
Name	Illustration	Single weight (kg)	Qty	Dimension (mm)
Independent jib head (Optional)		431	1	2500×1865×650
Counterweight slab C		600	1	2760×1073×35
Counterweight slab D		4500	1	2760×1073×321
Counterweight slab A		5500	1	2760×1073×520
Fixed jib		1024	1	9850×1000×1280
Auxiliary winch system (With wire ropes)		485	1	1126×584×566
46 t hook block (Optional)		445	1	1238×489×547
30.5 t hook block		315	1	1196×470×324
13.5 t hook block		210	1	1044×470×234

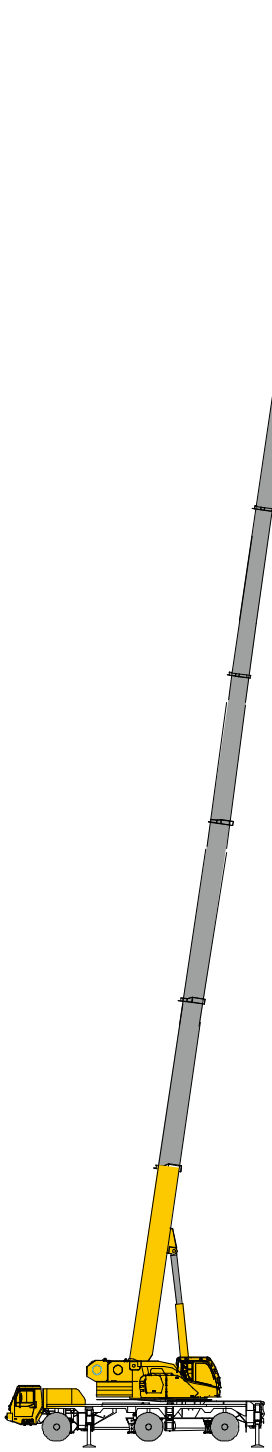
Boom/jib combinations

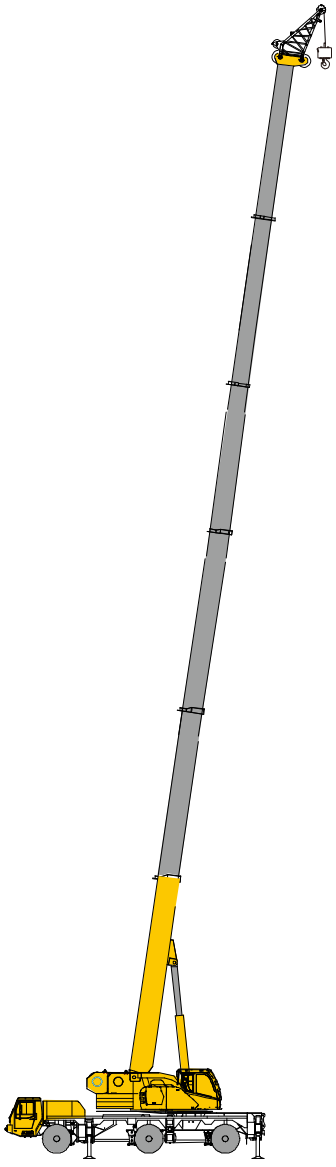
Fixed jib – 9.2 m	
Fixed jib – 16 m	

Components	Structure	Dimensions (L×W×H) (mm)	Weight (kg)
Connecting bracket		1100×650×1050	143
The 1st jib section assembly		8760×650×580	548
The 2nd jib section assembly		6300×350×360	247

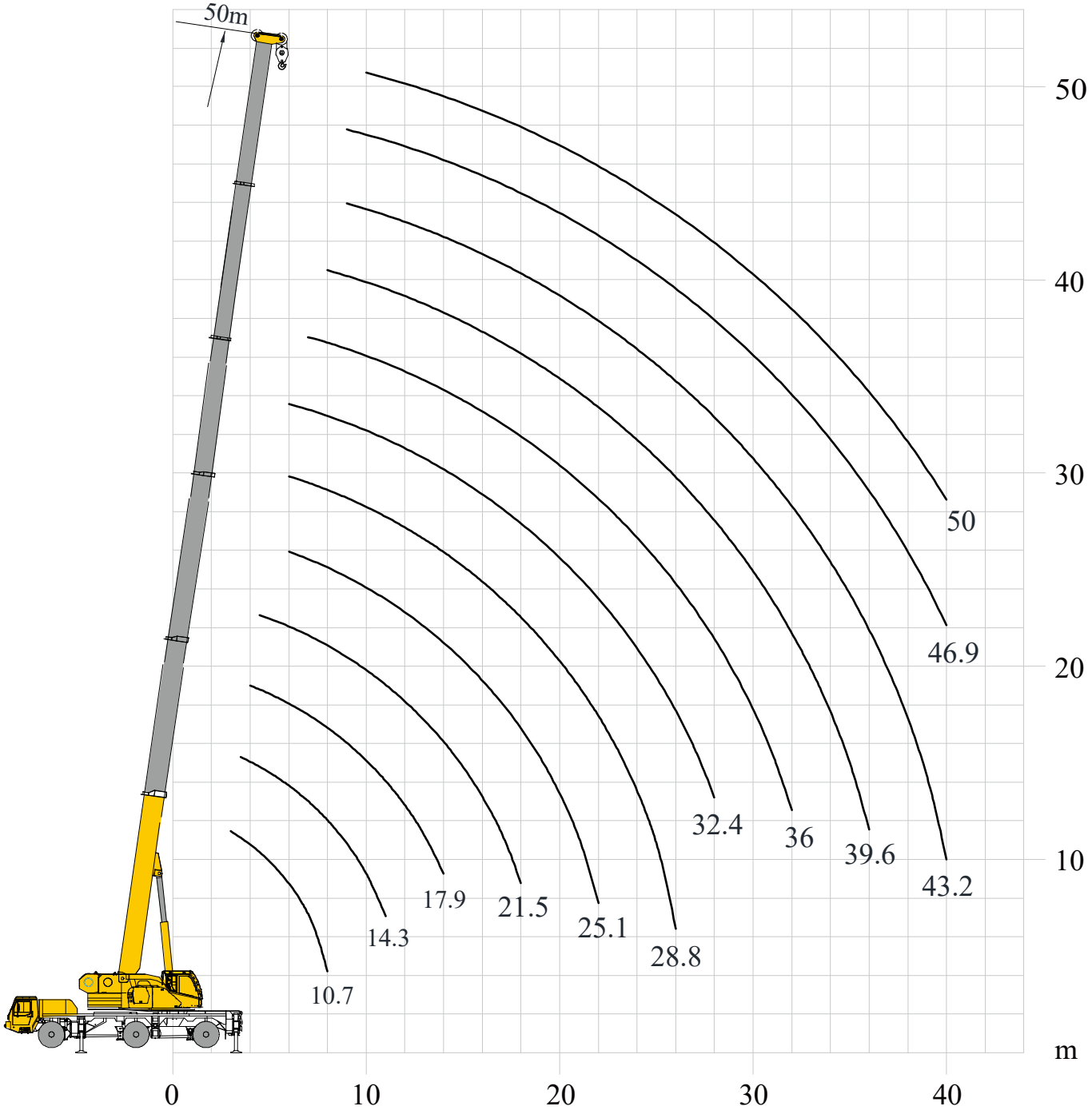
Boom/jib combinations







Boom	Fixed jib	Independent jib head
T: 10.7~50 m	T: 36~50 m F：9.2~16 m	T: 10.7~50 m I：2.5m


50m
50
40
30
20
10
m
0
10
20
30
40
50
46.9
43.2
39.6
36
32.4
28.8
25.1
21.5
17.9
14.3
10.7

	10.7*	14.3	17.9	21.5	25.1	28.8	32.4	36	39.6	43.2	46.9	50	
2.1	60.0*												2.1
3	42.5												3
3.5	40.5	40.1											3.5
4	37.8	35.8	36.6										4
4.5	34.8	33.1	34.9	32.8									4.5
5	32.2	29.8	32.5	32.5									5
6	27.3	27.3	27	27.1	26.5	25.1	20.5						6
7	22.5	22.8	23.2	22.6	23.5	23.2	18.7	16.1					7
8	17.5	18.9	19.2	19.5	19.6	19.3	16.9	15.3	12.1				8
9		16	16.3	16.5	16.4	16.1	15.6	14.3	11.8	10	7.8		9
10		13.7	14	14.4	14.3	14	14.3	13.1	11.7	10	7.8	6.4	10
11		11.5	12.5	12.5	12.5	13.1	12.8	12.3	11.4	9.9	7.7	6.4	11
12			11	11.1	10.9	11.7	11.8	10.8	10	9.3	7.6	6.4	12
13			9.8	9.9	9.8	10.5	10.5	9.2	8	8.9	7.2	6.4	13
14			8.8	8.9	8.7	9.7	9.3	9.1	7.8	8.1	7	6.3	14
15			6.2	8	8.4	8.7	8.3	8	7.6	7.5	6.8	6.2	15
16				7.2	7.8	7.9	7.5	7.6	7	6.7	6.5	6	16
17				6.5	7.1	7.3	7	6.9	6.5	6	6.1	5.9	17
18				6	6.5	6.7	6.5	6.2	6.2	5.7	5.4	5.4	18
19				4.8	5.9	6.1	6.2	5.7	5.7	5.3	4.9	4.8	19
20					5.4	5.6	5.8	5.2	5.6	5.1	4.9	4.5	20
21					5	5.2	5.3	4.8	5.1	4.7	4.6	4.3	21
22					4.6	4.8	4.9	4.6	4.7	4.6	4.4	3.6	22
23						4.4	4.6	4.4	4.4	4.2	4.1	3.3	23
24						4.1	4.3	4.3	4	4	4	3	24
25						3.8	4	4	3.8	3.7	3.5	2.8	25
26						3.5	3.7	3.7	3.5	3.4	3.3	2.5	26
27							3.4	3.4	3.2	3.2	3	2.3	27
28							3.2	3.2	3	2.9	2.8	2.1	28
29							2.6	3	2.8	2.7	2.6	1.9	29
30								2.8	2.6	2.5	2.4	1.7	30
31								2.6	2.4	2.4	2.2	1.6	31
32								2.5	2.2	2.2	2	1.4	32
33								1.7	2.1	2	1.9	1.3	33
34									1.9	1.9	1.7	1.2	34
35									1.8	1.7	1.6	1	35
36									1.7	1.6	1.5	0.9	36
37									1	1.5	1.3		37
38										1.4	1.2		38
39										1.3	1.1		39
40										1.2	1		40

* Capacity class

Load charts-counterweight in the rear position

T 10.7-50m

	10.7	14.3	17.9	21.5	25.1	28.8	32.4	36	39.6	43.2	46.9	50	
3	42.5												3
3.5	40.5	40.1											3.5
4	37.8	35.8	36.6										4
4.5	34.8	33.1	34.9	32.8									4.5
5	32.2	29.8	32.5	32.5									5
6	27.3	27.3	27	27.1	26.5	25.1	20.5						6
7	22.5	22.8	23.2	22.6	23.5	23.2	18.7	16.1					7
8	17.5	18.9	19.1	18.5	18.6	19.1	16.9	15.3	12.1				8
9		15.5	15.7	16.2	16	15.7	15.4	14.3	11.8	10	7.8		9
10		13.1	13.2	13.7	13.5	13.2	13.1	12.9	11.7	10	7.8	6.4	10
11		11.2	11.4	11.7	11.6	11.3	11.2	11	11.1	9.9	7.7	6.4	11
12			9.9	10.2	10.1	10	9.7	9.8	9.6	9.3	7.6	6.4	12
13			8.6	9	8.9	9.1	8.5	8.6	8	8.6	7.2	6.4	13
14			7.6	8	7.9	8.1	8.1	7.6	7.7	7.6	7	6.3	14
15			5.3	7.2	7	7.3	7.4	6.8	7	6.8	6.8	6	15
16				6.4	6.3	6.5	6.7	6.1	6.5	6.2	6.2	5.3	16
17				5.8	5.7	5.9	6	5.7	5.8	5.6	5.6	4.7	17
18				5.3	5.1	5.4	5.5	5.5	5.3	5.2	5.1	4.2	18
19				3.8	4.7	4.9	5	5	4.8	4.7	4.6	3.7	19
20					4.2	4.5	4.6	4.6	4.4	4.3	4.2	3.3	20
21					3.9	4.1	4.2	4.2	4	3.9	3.8	2.9	21
22					3.5	3.7	3.9	3.9	3.7	3.6	3.5	2.6	22
23						3.4	3.6	3.6	3.4	3.3	3.1	2.3	23
24						3.2	3.3	3.3	3.1	3	2.9	2	24
25						2.9	3	3.1	2.8	2.8	2.6	1.8	25
26						2.7	2.8	2.8	2.6	2.5	2.4	1.6	26
27							2.6	2.6	2.4	2.3	2.2	1.4	27
28							2.4	2.4	2.2	2.1	2	1.2	28
29							1.8	2.2	2	2	1.8	1	29
30								2.1	1.9	1.8	1.6	0.8	30
31								1.9	1.7	1.6	1.5		31
32								1.8	1.6	1.5	1.3		32
33								1.3	1.4	1.4	1.2		33
34									1.3	1.2	1.1		34
35									1.2	1.1	1		35
36									1.1	1	0.9		36
37										0.9	0.7		37
38										0.8			38

Load charts-counterweight in the rear position

T 10.7-50m

	10.7	14.3	17.9	21.5	25.1	28.8	32.4	36	39.6	43.2	46.9	50	
3	42.5												3
3.5	40.5	40.1											3.5
4	37.8	35.8	36.6										4
4.5	34.8	33.1	34.9	32.8									4.5
5	32.2	29.8	32.5	32.5									5
6	27.3	27.3	27	27.1	26.5	25.1	20.5						6
7	22.2	22.8	23.2	22.4	22.9	23.2	18.7	16.1					7
8	17.5	18.4	18.7	18.4	18.4	18.6	16.9	15.3	12.1				8
9		15.1	15.3	15.8	15.6	15.3	15	14.3	11.8	10	7.8		9
10		12.7	12.9	13.3	13.2	12.9	12.8	12.6	11.7	10	7.8	6.4	10
11		10.9	11.1	11.4	11.3	11	10.9	10.7	10.8	9.9	7.7	6.4	11
12			9.6	10	9.8	10	9.5	9.6	9.4	9.3	7.6	6.4	12
13			8.4	8.8	8.6	8.9	8.4	8.4	8	8.4	7.2	6.4	13
14			7.4	7.8	7.7	7.9	8	7.4	7.7	7.4	7	6.3	14
15			5.1	7	6.8	7.1	7.2	6.6	7	6.6	6.7	5.8	15
16				6.2	6.1	6.3	6.5	6.1	6.3	6.2	6	5.1	16
17				5.6	5.5	5.7	5.9	5.7	5.7	5.6	5.4	4.5	17
18				5.1	5	5.2	5.3	5.4	5.1	5.1	4.9	4	18
19				3.7	4.5	4.7	4.9	4.9	4.7	4.6	4.4	3.6	19
20					4.1	4.3	4.5	4.5	4.2	4.2	4	3.1	20
21					3.7	3.9	4.1	4.1	3.9	3.8	3.7	2.8	21
22					3.4	3.6	3.8	3.8	3.5	3.5	3.3	2.5	22
23						3.3	3.5	3.5	3.2	3.2	3	2.2	23
24						3	3.2	3.2	3	2.9	2.8	1.9	24
25						2.8	2.9	2.9	2.7	2.7	2.5	1.7	25
26						2.6	2.7	2.7	2.5	2.4	2.3	1.5	26
27							2.5	2.5	2.3	2.2	2.1	1.3	27
28							2.3	2.3	2.1	2	1.9	1.1	28
29							1.7	2.1	1.9	1.9	1.7	0.9	29
30								2	1.8	1.7	1.6	0.7	30
31								1.8	1.6	1.5	1.4		31
32								1.7	1.5	1.4	1.3		32
33									1.3	1.3	1.1		33
34									1.2	1.1	1		34
35									1.1	1	0.9		35
36									1	0.9	0.8		36
37										0.8			37
38										0.7			38

Load charts-counterweight in the rear position

T 10.7-50m

	10.7	14.3	17.9	21.5	25.1	28.8	32.4	36	39.6	43.2	46.9	50	
3	42.5												3
3.5	40.5	40.1											3.5
4	37.8	35.8	36.6										4
4.5	34.8	33.1	34.9	32.8									4.5
5	32.2	29.8	32.5	32.5									5
6	27.3	27.3	27	27.1	26.5	25.1	20.5						6
7	21.9	22.8	23.1	22.1	22.6	23	18.7	16.1					7
8	17.2	18.2	18.4	18.4	18.4	18.3	16.9	15.3	12.1				8
9		14.9	15.1	15.5	15.4	15	14.8	14.3	11.8	10	7.8		9
10		12.5	12.7	13.1	13	12.7	12.6	12.4	11.7	10	7.8	6.4	10
11		10.7	10.9	11.3	11.1	10.8	10.8	10.6	10.6	9.9	7.7	6.4	11
12			9.4	9.8	9.7	9.9	9.3	9.4	9.2	9.3	7.6	6.4	12
13			8.3	8.6	8.5	8.7	8.4	8.2	8	8.2	7.2	6.4	13
14			7.3	7.6	7.5	7.7	7.9	7.3	7.7	7.2	7	6.3	14
15			4.6	6.8	6.7	6.9	7.1	6.4	6.8	6.4	6.6	5.7	15
16				6.1	6	6.2	6.4	6.1	6.1	6.1	5.9	5	16
17				5.5	5.4	5.6	5.8	5.7	5.5	5.5	5.3	4.4	17
18				5	4.9	5.1	5.2	5.2	5	4.9	4.8	3.9	18
19				3.6	4.4	4.6	4.8	4.8	4.6	4.5	4.3	3.5	19
20					4	4.2	4.4	4.4	4.2	4.1	3.9	3.1	20
21					3.6	3.9	4	4	3.8	3.7	3.6	2.7	21
22					3.3	3.5	3.7	3.7	3.5	3.4	3.2	2.4	22
23						3.2	3.4	3.4	3.2	3.1	2.9	2.1	23
24						3	3.1	3.1	2.9	2.8	2.7	1.8	24
25						2.7	2.9	2.9	2.7	2.6	2.4	1.6	25
26						2.5	2.6	2.6	2.4	2.4	2.2	1.4	26
27							2.4	2.4	2.2	2.2	2	1.2	27
28							2.2	2.2	2	2	1.8	1	28
29							1.6	2.1	1.9	1.8	1.7	0.8	29
30								1.9	1.7	1.6	1.5	0.7	30
31								1.8	1.6	1.5	1.3		31
32								1.6	1.4	1.3	1.2		32
33									1.3	1.2	1.1		33
34									1.2	1.1	1		34
35									1	1	0.8		35
36									0.9	0.9	0.7		36
37										0.8			37
38										0.7			38

Load charts-counterweight in the rear position

T 10.7-50m

	10.7	14.3	17.9	21.5	25.1	28.8	32.4	36	39.6	43.2	46.9	50	
3	42.5												3
3.5	40.5	40.1											3.5
4	37.8	35.8	37.1										4
4.5	34.8	33.1	34.9	34.5									4.5
5	32.2	29.8	32.5	32.5									5
6	26.6	27.3	27	26.8	26.5	25.2	20.5						6
7	19.6	20.7	20.9	19.8	20.4	20.8	18.7	16.1					7
8	15.3	16.2	16.5	16.9	16.7	16.4	16.2	15.3	12.1				8
9		13.2	13.4	13.9	13.7	13.4	13.3	13.1	11.8	10	7.8		9
10		11	11.2	11.6	11.5	11.6	11.1	11.2	11	10	7.8	6.4	10
11		9.3	9.5	9.9	9.8	10	9.4	9.5	9.3	9.5	7.7	6.4	11
12			8.1	8.5	8.4	8.7	8.5	8.1	8.6	8.1	7.6	6.4	12
13			7	7.4	7.2	7.5	7.7	7	7.4	7.2	7.2	6.2	13
14			6.1	6.5	6.3	6.6	6.7	6.7	6.5	6.4	6.2	5.5	14
15			5.3	5.7	5.6	5.8	6	6	5.7	5.6	5.5	4.7	15
16				5	4.9	5.2	5.3	5.3	5.1	5	4.8	4.1	16
17				4.5	4.4	4.6	4.7	4.8	4.5	4.4	4.3	3.5	17
18				4	3.9	4.1	4.3	4.3	4	4	3.8	3.1	18
19				3.6	3.5	3.7	3.8	3.8	3.6	3.5	3.4	2.6	19
20					3.1	3.3	3.5	3.5	3.2	3.2	3	2.3	20
21					2.8	3	3.1	3.1	2.9	2.8	2.7	2	21
22					2.5	2.7	2.8	2.8	2.6	2.6	2.4	1.6	22
23						2.4	2.6	2.6	2.4	2.3	2.1	1.3	23
24						2.2	2.3	2.3	2.1	2.1	1.9	1.1	24
25						2	2.1	2.1	1.9	1.8	1.7	0.9	25
26						1.8	1.9	1.9	1.7	1.6	1.5	0.8	26
27							1.7	1.7	1.5	1.5	1.3	0.7	27
28							1.6	1.6	1.4	1.3	1.1		28
29							1.4	1.4	1.2	1.1	1		29
30								1.3	1.1	1			30
31								1.2	0.9				31
32								1					32
33								0.9					33

* 3t counterweight + auxiliary winch

Load charts-counterweight in the rear position

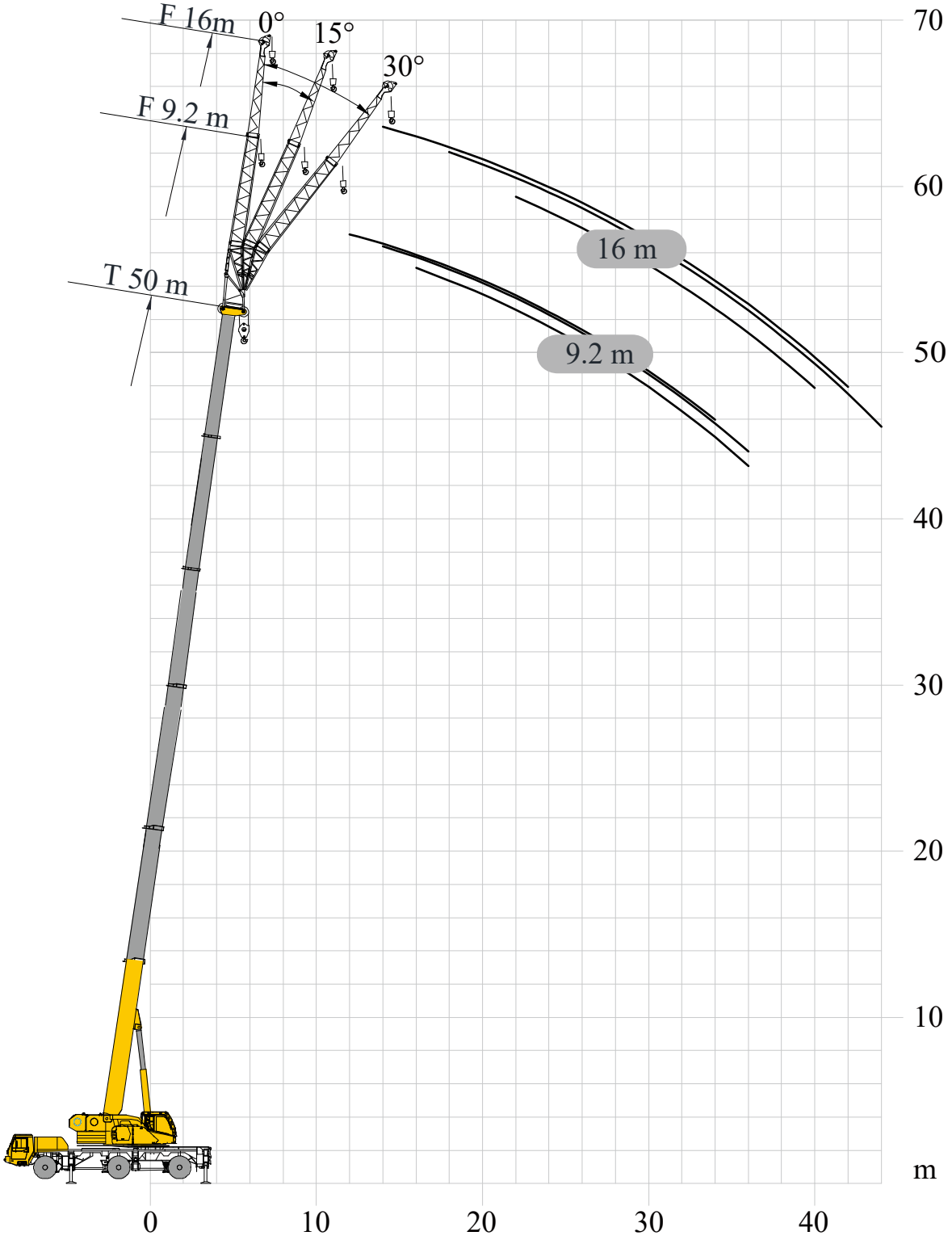
T 10.7-50m

	10.7	14.3	17.9	21.5	25.1	28.8	32.4	36	39.6	43.2	46.9	50	
3	42.5												3
3.5	40.5	40.1											3.5
4	37.8	35.8	36.6										4
4.5	34.8	33.1	34.9	32.8									4.5
5	32.2	29.8	32.5	32.5									5
6	23.9	25	25.2	24.1	26.5	25.1	20.5						6
7	17.8	18.8	19	18.5	19.3	18.9	18.6	16.1					7
8	13.8	14.8	15	15.5	15.3	15	14.9	14.6	12.1				8
9		12.1	12.3	12.7	12.5	12.3	12.1	12.2	11.8	10	7.8		9
10		10	10.2	10.7	10.5	10.8	10.5	10.2	10.1	10	7.8	6.4	10
11		8.5	8.7	9.1	8.9	9.2	9	8.7	8.9	8.7	7.7	6.4	11
12			7.5	7.9	7.7	8	8.1	7.8	7.9	7.8	7.6	6.4	12
13			6.5	6.9	6.7	7	7.1	7	6.9	6.8	6.6	5.7	13
14			5.7	6	5.9	6.1	6.3	6.3	6.1	6	5.8	4.9	14
15			4.5	5.4	5.2	5.5	5.6	5.6	5.4	5.3	5.1	4.2	15
16				4.8	4.6	4.9	5	5	4.8	4.7	4.5	3.6	16
17				4.3	4.1	4.4	4.5	4.5	4.3	4.2	4	3.1	17
18				3.8	3.7	3.9	4.1	4.1	3.8	3.8	3.6	2.7	18
19				2.7	3.3	3.5	3.7	3.7	3.4	3.4	3.2	2.3	19
20					3	3.2	3.3	3.3	3.1	3	2.9	2	20
21					2.6	2.9	3	3	2.8	2.7	2.6	1.7	21
22					2.4	2.6	2.7	2.7	2.5	2.4	2.3	1.4	22
23						2.3	2.5	2.5	2.2	2.2	2	1.1	23
24						2.1	2.2	2.2	2	1.9	1.8	0.9	24
25						1.9	2	2	1.8	1.7	1.6	0.7	25
26						1.7	1.8	1.8	1.6	1.5	1.4		26
27							1.6	1.6	1.4	1.4	1.2		27
28							1.5	1.5	1.3	1.2	1.1		28
29							1	1.3	1.1	1.1	0.9		29
30								1.2	1	0.9	0.8		30
31								1.1	0.9	0.8			31
32								0.9	0.7	0.7			32

Load charts-counterweight in the rear position

T 10.7-50m

	10.7	14.3	17.9	21.5	25.1	28.8	32.4	36	39.6	43.2	46.9	50	
3	42.5												3
3.5	40.5	39.4											3.5
4	37.8	35.8	36.6										4
4.5	34.8	33.1	34.9	32.8									4.5
5	32.2	29.8	32.5	32.5									5
6	23.2	24.3	24.5	23.4	24	24.5	20.5						6
7	17.2	18.2	18.4	18.5	18.8	18.4	18.1	16.1					7
8	13.4	14.4	14.6	15	14.9	14.5	14.4	14.2	12.1				8
9		11.7	11.9	12.3	12.1	12.3	11.8	11.9	11.6	10	7.8		9
10		9.7	9.9	10.3	10.2	10.4	10.5	9.9	10.1	9.9	7.8	6.4	10
11		8.2	8.4	8.8	8.7	8.9	9	8.4	8.8	8.4	7.7	6.4	11
12			7.2	7.6	7.5	7.7	7.9	7.8	7.6	7.5	7.4	6.4	12
13			6.3	6.6	6.5	6.7	6.9	6.9	6.7	6.6	6.4	5.4	13
14			5.5	5.8	5.7	5.9	6.1	6.1	5.9	5.8	5.6	4.7	14
15			3.8	5.2	5	5.3	5.4	5.4	5.2	5.1	4.9	4	15
16				4.6	4.5	4.7	4.8	4.8	4.6	4.5	4.4	3.5	16
17				4.1	4	4.2	4.3	4.3	4.1	4	3.9	3	17
18				3.7	3.5	3.8	3.9	3.9	3.7	3.6	3.4	2.5	18
19				2.6	3.1	3.4	3.5	3.5	3.3	3.2	3.1	2.1	19
20					2.8	3	3.2	3.2	2.9	2.9	2.7	1.8	20
21					2.5	2.7	2.9	2.9	2.6	2.6	2.4	1.5	21
22					2.2	2.4	2.6	2.6	2.4	2.3	2.1	1.2	22
23						2.2	2.3	2.3	2.1	2	1.9	1	23
24						2	2.1	2.1	1.9	1.8	1.7	0.8	24
25						1.7	1.9	1.9	1.7	1.6	1.5	0.6	25
26						1.6	1.7	1.7	1.5	1.4	1.3		26
27							1.5	1.5	1.3	1.2	1.1		27
28							1.4	1.4	1.2	1.1	0.9		28
29							0.9	1.2	1	0.9	0.8		29
30								1.1	0.9	0.8	0.7		30
31								1	0.8	0.7			31
32								0.9					32


F 16m
0°
15°
30°
F 9.2 m
T 50 m
16 m
9.2 m
70
60
50
40
30
20
10
m
0
10
20
30
40

Load charts-counterweight in the rear position

F 9.2m

	10.7 m			36 m			39.6 m			43.2 m			46.9 m			50 m			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	
3	4.5																		3
3.5	4.5																		3.5
4	4.5																		4
4.5	4.5	4.5																	4.5
5	4.5	4.5																	5
6	4.5	4.5	4.5																6
7	4.5	4.5	4.1																7
8	4.5	4.5	3.6																8
9	4.5	4.5	3.2	4.5															9
10	4.5	4.5	3.0	4.5	4.5		4.5			4.5									10
12	4.5	4.4	2.9	4.5	4.5	2.7	4.5	4.5		4.5	4.5		4.0			2.9			12
14	4.5	4.1	2.8	4.5	4.2	2.6	4.5	4.2	2.6	4.5	4.3	2.6	4.0	4.3		2.8	2.9		14
16		3.8	2.5	4.5	3.9	2.5	4.5	3.9	2.5	4.1	3.9	2.5	3.7	3.6	2.4	2.8	2.9	2.5	16
18				4.5	3.7	2.3	4.0	3.7	2.4	3.5	3.5	2.4	3.2	3.0	2.3	2.8	2.8	2.3	18
20				4.0	3.4	2.2	3.5	3.4	2.2	3.1	3.1	2.3	2.9	2.7	2.2	2.6	2.5	2.2	20
22				3.7	3.3	2.1	3.1	3.0	2.1	2.7	2.7	2.2	2.5	2.4	2.2	2.3	2.2	2.1	22
24				3.3	3.1	2.0	2.7	2.6	2.0	2.3	2.3	2.0	2.2	2.2	2.1	2.0	2.0	1.9	24
26				2.9	2.8	2.0	2.4	2.5	2.0	2.2	2.1	2.0	1.9	2.0	1.9	1.8	1.8	1.8	26
28				2.5	2.6	1.9	2.2	2.1	1.9	1.8	1.9	1.9	1.7	1.8	1.8	1.6	1.6	1.6	28
30				2.2	2.3	1.8	1.9	1.9	1.9	1.7	1.7	1.6	1.6	1.5	1.5	1.3	1.4	1.4	30
32				1.8	1.9	1.8	1.8	1.7	1.7	1.5	1.5	1.4	1.4	1.3	1.3	1.2	1.2	1.2	32
34				1.5	1.6	1.7	1.4	1.6	1.4	1.3	1.3	1.2	1.3	1.1	1.1	0.9	1.1	1.1	34
36				1.2	1.3	1.4	1.2	1.3	1.3	1.1	1.2	1.2	1.1	1.1	1.1		0.8	0.9	36
38				1.0	1.1	1.1	1.0	1.1	1.1	1.0	1.0	1.0	0.9	1.0	1.0				38
40							0.8	0.8	0.9	0.7	0.7	0.7	0.7	0.7	0.7				40

Load charts-counterweight in the rear position

F 9.2m

	10.7 m			36 m			39.6 m			43.2 m			46.9 m			50 m			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	
3	4.5																		3
3.5	4.5																		3.5
4	4.5																		4
4.5	4.5	4.5																	4.5
5	4.5	4.5																	5
6	4.5	4.5	4.5																6
7	4.5	4.5	4.1																7
8	4.5	4.5	3.6																8
9	4.5	4.5	3.2	4.5															9
10	4.5	4.5	3.0	4.5	4.5		4.5			4.5									10
12	4.5	4.4	2.9	4.5	4.5	2.7	4.5	4.5		4.5	4.5		4.0			2.9			12
14	4.5	4.1	2.8	4.5	4.2	2.6	4.5	4.2	2.6	4.5	4.3	2.6	4.0	4.3		2.8	2.9		14
16		3.8	2.5	4.5	3.9	2.5	4.5	3.9	2.5	4.1	3.9	2.5	3.7	3.6	2.4	2.8	2.9	2.5	16
18				4.5	3.7	2.3	4.0	3.7	2.4	3.5	3.5	2.4	3.2	3.0	2.3	2.8	2.8	2.3	18
20				4.0	3.4	2.2	3.5	3.4	2.2	3.1	3.1	2.3	2.9	2.7	2.2	2.6	2.5	2.2	20
22				3.4	3.3	2.1	3.1	3.0	2.1	2.7	2.7	2.2	2.5	2.4	2.2	2.3	2.2	2.1	22
24				2.8	3.0	2.0	2.7	2.6	2.0	2.3	2.3	2.0	2.2	2.2	2.1	2.0	2.0	1.9	24
26				2.2	2.4	2.0	2.3	2.5	2.0	2.2	2.1	2.0	1.9	2.0	1.9	1.6	1.8	1.8	26
28				1.8	2.0	1.9	1.8	2.0	1.9	1.8	1.9	1.9	1.7	1.8	1.8	1.2	1.4	1.6	28
30				1.4	1.6	1.7	1.4	1.6	1.7	1.5	1.7	1.6	1.6	1.5	1.5	0.8	1.0	1.2	30
32				1.1	1.2	1.3	1.1	1.3	1.4	1.2	1.3	1.4	1.3	1.3	1.3			0.9	32
34				0.8	0.9	1.0	0.9	1.0	1.0	0.9	1.1	1.1	1.0	1.1	1.1				34
36									0.8		0.8	0.9	0.8	0.9	1.0				36

Load charts-counterweight in the rear position

F 9.2m

	10.7 m			36 m			39.6 m			43.2 m			46.9 m			50 m			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	
3	4.5																		3
3.5	4.5																		3.5
4	4.5																		4
4.5	4.5	4.5																	4.5
5	4.5	4.5																	5
6	4.5	4.5	4.5																6
7	4.5	4.5	4.1																7
8	4.5	4.5	3.6																8
9	4.5	4.5	3.2	4.5															9
10	4.5	4.5	3.0	4.5	4.5		4.5			4.5									10
12	4.5	4.4	2.9	4.5	4.5	2.7	4.5	4.5		4.5	4.5		4.0			2.9			12
14	4.5	4.1	2.8	4.5	4.2	2.6	4.5	4.2	2.6	4.5	4.3	2.6	4.0	4.3		2.8	2.9		14
16		3.8	2.5	4.5	3.9	2.5	4.5	3.9	2.5	4.1	3.9	2.5	3.7	3.6	2.4	2.8	2.9	2.5	16
18				4.5	3.7	2.3	4.0	3.7	2.4	3.5	3.5	2.4	3.2	3.0	2.3	2.8	2.8	2.3	18
20				4.0	3.4	2.2	3.5	3.4	2.2	3.1	3.1	2.3	2.9	2.7	2.2	2.6	2.5	2.2	20
22				3.3	3.3	2.1	3.1	3.0	2.1	2.7	2.7	2.2	2.5	2.4	2.2	2.3	2.2	2.1	22
24				2.6	2.9	2.0	2.6	2.6	2.0	2.3	2.3	2.0	2.2	2.2	2.1	2.0	2.0	1.9	24
26				2.1	2.3	2.0	2.1	2.3	2.0	2.2	2.1	2.0	1.9	2.0	1.9	1.5	1.8	1.8	26
28				1.7	1.9	1.9	1.7	1.9	1.9	1.8	1.9	1.9	1.7	1.8	1.8	1.1	1.3	1.5	28
30				1.3	1.5	1.6	1.3	1.5	1.6	1.4	1.6	1.6	1.5	1.5	1.5		0.9	1.1	30
32				1.0	1.1	1.2	1.0	1.2	1.3	1.1	1.2	1.4	1.2	1.3	1.3			0.8	32
34				0.8	0.9	0.9	0.8	0.9	1.0	0.8	1.0	1.1	0.9	1.0	1.1				34
36												0.8		0.8	0.9				36

Load charts-counterweight in the rear position

F 9.2m

	10.7 m			36 m			39.6 m			43.2 m			46.9 m			50 m			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	
3	4.5																		3
3.5	4.5																		3.5
4	4.5																		4
4.5	4.5	4.5																	4.5
5	4.5	4.5																	5
6	4.5	4.5	4.5																6
7	4.5	4.5	4.1																7
8	4.5	4.5	3.6																8
9	4.5	4.5	3.2	4.5															9
10	4.5	4.5	3.0	4.5	4.5		4.5			4.5									10
12	4.5	4.4	2.9	4.5	4.5	2.7	4.5	4.5		4.5	4.5		4.0			2.9			12
14	4.5	4.1	2.8	4.5	4.2	2.6	4.5	4.2	2.6	4.5	4.3	2.6	4.0	4.3		2.8	2.9		14
16		3.8	2.5	4.5	3.9	2.5	4.5	3.9	2.5	4.1	3.9	2.5	3.7	3.6	2.4	2.8	2.9	2.5	16
18				4.5	3.7	2.3	4.0	3.7	2.4	3.5	3.5	2.4	3.2	3.0	2.3	2.8	2.8	2.3	18
20				3.9	3.4	2.2	3.5	3.4	2.2	3.1	3.1	2.3	2.9	2.7	2.2	2.6	2.5	2.2	20
22				3.2	3.3	2.1	3.1	3.0	2.1	2.7	2.7	2.2	2.5	2.4	2.2	2.3	2.2	2.1	22
24				2.5	2.8	2.0	2.6	2.6	2.0	2.3	2.3	2.0	2.2	2.2	2.1	1.9	2.0	1.9	24
26				2.0	2.2	2.0	2.1	2.2	2.0	2.1	2.1	2.0	1.9	2.0	1.9	1.4	1.7	1.8	26
28				1.6	1.8	1.9	1.6	1.8	1.9	1.7	1.9	1.9	1.7	1.8	1.8	1.0	1.2	1.4	28
30				1.3	1.4	1.5	1.3	1.4	1.5	1.4	1.5	1.6	1.4	1.5	1.5		0.9	1.0	30
32				1.0	1.1	1.2	1.0	1.1	1.2	1.0	1.2	1.3	1.1	1.3	1.3				32
34					0.8	0.9		0.8	0.9	0.8	0.9	1.0	0.9	1.0	1.1				34
36															0.8				36

	10.7 m			36 m			39.6 m			43.2 m			46.9 m			50 m			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	
3	4.5																		3
3.5	4.5																		3.5
4	4.5																		4
4.5	4.5	4.5																	4.5
5	4.5	4.5																	5
6	4.5	4.5	4.5																6
7	4.5	4.5	4.1																7
8	4.5	4.5	3.6																8
9	4.5	4.5	3.2	4.5															9
10	4.5	4.5	3.0	4.5	4.5		4.5			4.5									10
12	4.5	4.4	2.9	4.5	4.5	2.7	4.5	4.5		4.5	4.5		4.0			2.9			12
14	4.5	4.1	2.8	4.5	4.2	2.6	4.5	4.2	2.6	4.5	4.3	2.6	4.0	4.3		2.8	2.9		14
16		3.8	2.5	4.5	3.9	2.5	4.5	3.9	2.5	4.1	3.9	2.5	3.7	3.6	2.4	2.8	2.9	2.5	16
18				3.5	3.7	2.3	3.5	3.7	2.4	3.5	3.5	2.4	3.2	3.0	2.3	2.8	2.8	2.3	18
20				2.7	3.0	2.2	2.7	3.0	2.2	2.8	3.1	2.3	2.9	2.7	2.2	2.0	2.4	2.2	20
22				2.0	2.3	2.1	2.1	2.3	2.1	2.1	2.4	2.2	2.2	2.4	2.2	1.4	1.7	2.0	22
24				1.5	1.8	1.9	1.6	1.8	2.0	1.6	1.9	2.0	1.7	1.9	2.1	0.9	1.2	1.4	24
26				1.1	1.3	1.5	1.1	1.3	1.5	1.2	1.4	1.6	1.3	1.5	1.7		0.8	1.0	26
28				0.8	1.0	1.1	0.8	1.0	1.1	0.9	1.0	1.2	1.0	1.1	1.3				28
30									0.8			0.9		0.8	0.9				30

Load charts-counterweight in the rear position

F 9.2m

	10.7 m			36 m			39.6 m			43.2 m			46.9 m			50 m			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	
3	4.5																		3
3.5	4.5																		3.5
4	4.5																		4
4.5	4.5	4.5																	4.5
5	4.5	4.5																	5
6	4.5	4.5	4.5																6
7	4.5	4.5	4.1																7
8	4.5	4.5	3.6																8
9	4.5	4.5	3.2	4.5															9
10	4.5	4.5	3.0	4.5	4.5		4.5			4.5									10
12	4.5	4.4	2.9	4.5	4.5	2.7	4.5	4.5		4.5	4.5		4.0			2.9			12
14	4.5	4.1	2.8	4.5	4.2	2.6	4.5	4.2	2.6	4.5	4.3	2.6	4.0	4.3		2.8	2.9		14
16		3.8	2.5	4.3	3.9	2.5	4.3	3.9	2.5	4.1	3.9	2.5	3.7	3.6	2.4	2.8	2.9	2.5	16
18				3.3	3.6	2.3	3.3	3.6	2.4	3.4	3.5	2.4	3.2	3.0	2.3	2.6	2.8	2.3	18
20				2.5	2.8	2.2	2.5	2.8	2.2	2.6	2.9	2.3	2.7	2.7	2.2	1.8	2.2	2.2	20
22				1.9	2.2	2.1	1.9	2.2	2.1	2.0	2.2	2.2	2.1	2.3	2.2	1.3	1.6	1.9	22
24				1.4	1.6	1.8	1.4	1.6	1.8	1.5	1.7	1.9	1.6	1.8	2.0	0.8	1.1	1.3	24
26				1.0	1.2	1.3	1.0	1.2	1.4	1.1	1.3	1.5	1.2	1.4	1.6			0.9	26
28					0.8	1.0		0.9	1.0	0.8	0.9	1.1	0.8	1.0	1.2				28
30												0.8			0.8				30

	10.7 m			36 m			39.6 m			43.2 m			46.9 m			50 m			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	
4	4.5																		4
4.5	4.5																		4.5
5	4.5	4.5																	5
6	4.5	4.5	4.5																6
7	4.5	4.5	4.1																7
8	4.5	2.9	3.6	4.5															8
9	4.0	2.8	3.2	4.5															9
10	3.7	2.6	3.0	4.5															10
12	3.2	2.4	1.2	4.5			4.5			3.8									12
14	2.8	2.1	1.0	4.2	2.6		4.2			3.8			3.0			2.1			14
16	2.5	1.9	1.0	3.8	2.5		3.9	2.4		3.7	2.4		3.0			2.1			16
18	2.3	1.7	1.0	3.5	2.4	1.3	3.5	2.3		3.2	2.3		2.9	2.4		2.1	2.1		18
20	2.1	1.6	0.9	3.3	2.1	1.1	3.2	2.2	1.2	2.8	2.2	1.1	2.5	2.3	1.2	2.0	2.1		20
22		1.4	0.7	3.1	2.0	1.1	2.7	2.0	1.1	2.4	2.1	1.1	2.2	2.1	1.1	2.0	2.1	1.2	22
24				2.8	1.9	1.1	2.4	1.9	1.1	2.1	2.0	1.1	2.0	2.0	1.1	1.9	2.0	1.1	24
26				2.6	1.8	1.0	2.2	1.8	1.0	1.9	1.8	1.1	1.8	1.9	1.1	1.5	1.8	1.0	26
28				2.4	1.7	0.9	2.0	1.7	1.0	1.6	1.7	1.0	1.5	1.7	1.0	1.3	1.5	0.9	28
30				2.1	1.6	0.9	1.8	1.6	0.9	1.5	1.6	0.9	1.3	1.6	0.9	1.1	1.3	0.9	30
32				1.9	1.4	0.9	1.5	1.6	0.9	1.3	1.5	0.9	1.1	1.3	0.9	1.0	1.1	0.9	32
34				1.8	1.4	0.9	1.3	1.4	0.9	1.1	1.3	0.9	1.0	1.1	0.9	0.9	1.0	0.9	34
36				1.5	1.3	0.9	1.2	1.4	0.9	1.0	1.2	0.9	0.9	1.0	0.9	0.9	0.9	0.8	36
38				1.3	1.3	0.9	1.0	1.2	0.9	0.9	1.0	0.8	0.9	1.0	0.8	0.6	0.8	0.5	38
40				1.0	1.2		1.0	1.1	0.9	0.9	0.9	0.7	0.7	0.9	0.7	0.3	0.5	0.3	40
42				0.8	1.0		0.8	0.9		0.7	0.8		0.5	0.7	0.4	0.2	0.3		42
44													0.3	0.5			0.2		44
46													0.2	0.3					46
48														0.2					48

	10.7 m			36 m			39.6 m			43.2 m			46.9 m			50 m			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	
4	4.5																		4
4.5	4.5																		4.5
5	4.5	4.5																	5
6	4.5	4.5	4.5																6
7	4.5	4.5	4.1																7
8	4.5	2.9	3.6	4.5															8
9	4.0	2.8	3.2	4.5															9
10	3.7	2.6	3.0	4.5															10
12	3.2	2.4	1.2	4.5			4.5			3.8									12
14	2.8	2.1	1.0	4.2	2.6		4.2			3.8			3.0			2.1			14
16	2.5	1.9	1.0	3.8	2.5		3.9	2.4		3.7	2.4		3.0			2.1			16
18	2.3	1.7	1.0	3.5	2.4	1.3	3.5	2.3		3.2	2.3		2.9	2.4		2.1	2.1		18
20	2.1	1.6	0.9	3.3	2.1	1.1	3.2	2.2	1.2	2.8	2.2	1.1	2.5	2.3	1.2	2.0	2.1		20
22		1.4	0.7	3.1	2.0	1.1	2.7	2.0	1.0	2.4	2.1	1.1	2.2	2.1	1.1	2.0	2.1	1.2	22
24				2.8	1.9	1.1	2.4	1.9	1.1	2.1	2.0	1.1	2.0	2.0	1.1	1.9	2.0	1.1	24
26				2.4	1.8	1.0	2.2	1.8	1.0	1.9	1.8	1.1	1.8	1.9	1.1	1.5	1.8	1.0	26
28				2.0	1.7	0.9	2.0	1.7	1.0	1.6	1.7	1.1	1.5	1.7	1.0	1.3	1.5	0.9	28
30				1.6	1.6	0.9	1.6	1.6	0.9	1.5	1.6	1.0	1.3	1.6	0.9	1.0	1.3	0.9	30
32				1.3	1.4	0.9	1.3	1.6	0.9	1.3	1.5	1.0	1.1	1.3	0.9		1.0	0.9	32
34				1.1	1.3	0.9	1.0	1.3	0.9	1.1	1.3	0.9	1.0	1.1	0.9			0.9	34
36				0.8	1.0	0.9	0.8	1.0	0.9	0.8	1.0	0.9	0.9	1.0	0.9				36
38					0.8	0.9			0.9		0.8	0.9		0.9	0.8				38
40															0.7				40

Load charts-counterweight in the rear position

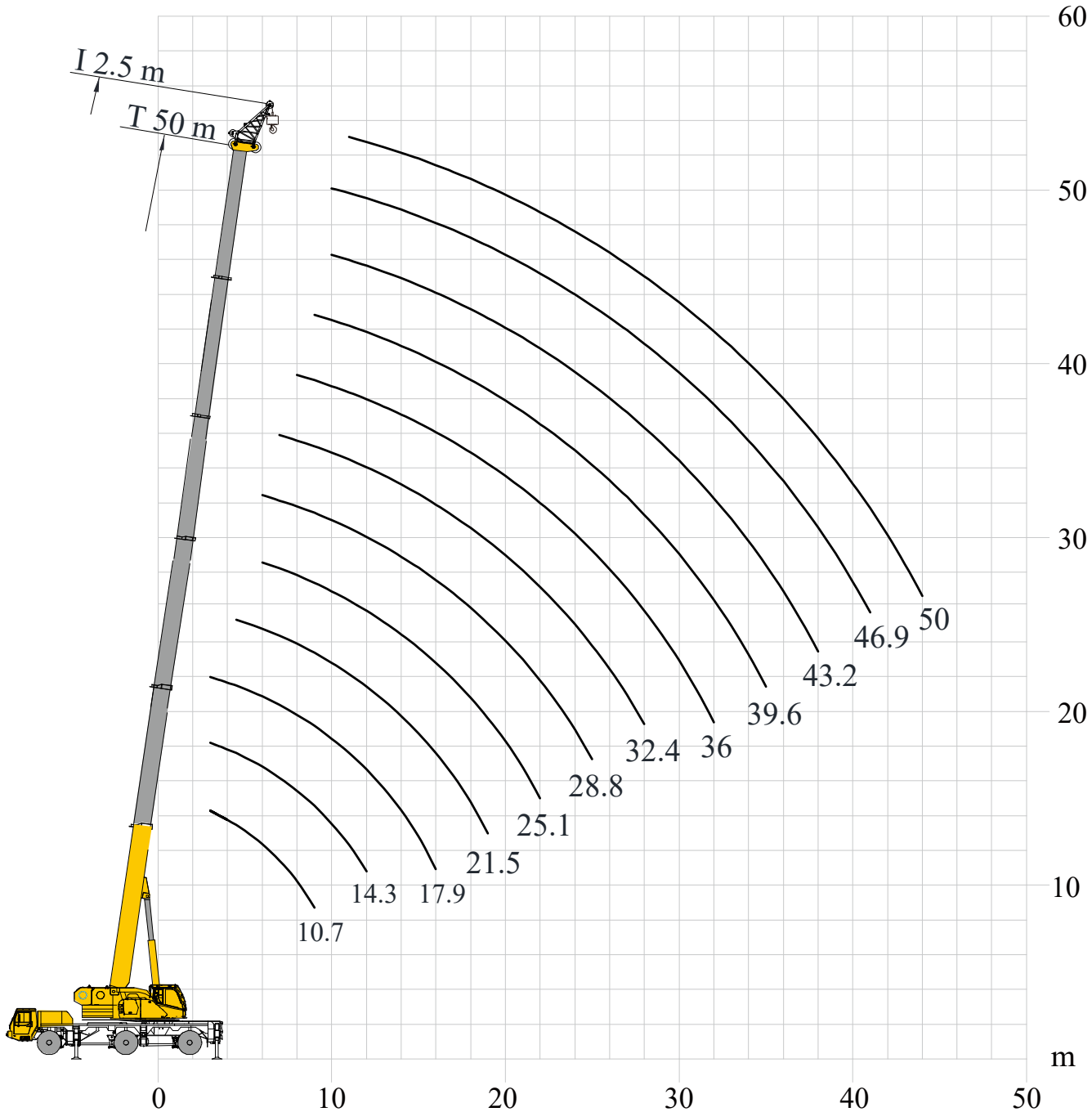
F 16m

	10.7 m			36 m			39.6 m			43.2 m			46.9 m			50 m			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	
4	4.5																		4
4.5	4.5																		4.5
5	4.5	4.5																	5
6	4.5	4.5	4.5																6
7	4.5	4.5	4.1																7
8	4.5	2.9	3.6	4.5															8
9	4.0	2.8	3.2	4.5															9
10	3.7	2.6	3.0	4.5															10
12	3.2	2.4	1.2	4.5			4.5			3.8									12
14	2.8	2.1	1.0	4.2	2.6		4.2			3.8			3.0			2.1			14
16	2.5	1.9	1.0	3.8	2.5		3.9	2.4		3.7	2.4		3.0			2.1			16
18	2.3	1.7	1.0	3.5	2.4	1.3	3.5	2.3		3.2	2.3		2.9	2.4		2.1	2.1		18
20	2.1	1.6	0.9	3.3	2.1	1.1	3.2	2.2	1.2	2.8	2.2	1.1	2.5	2.3	1.2	2.0	2.1		20
22		1.4	0.7	3.1	2.0	1.1	2.7	2.0	1.0	2.4	2.1	1.1	2.2	2.1	1.1	2.0	2.1	1.2	22
24				2.8	1.9	1.1	2.4	1.9	1.1	2.1	2.0	1.1	2.0	2.0	1.1	1.9	2.0	1.1	24
26				2.3	1.8	1.0	2.2	1.8	1.0	1.9	1.8	1.1	1.8	1.9	1.1	1.5	1.8	1.0	26
28				1.9	1.7	0.9	1.9	1.7	1.0	1.6	1.7	1.1	1.5	1.7	1.0	1.3	1.5	0.9	28
30				1.5	1.6	0.9	1.5	1.6	0.9	1.5	1.6	1.0	1.3	1.6	0.9	0.9	1.3	0.9	30
32				1.2	1.4	0.9	1.2	1.5	0.9	1.3	1.5	0.9	1.1	1.3	0.9		0.9	0.9	32
34				1.0	1.2	0.9	0.9	1.2	0.9	1.0	1.2	0.9	1.0	1.1	0.9			0.9	34
36					0.9	0.9		0.9	0.9	0.8	1.0	0.9	0.8	1.0	0.9				36
38						0.8			0.8			0.8		0.8	0.8				38
40															0.7				40

	10.7 m			36 m			39.6 m			43.2 m			46.9 m			50 m			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	
4	4.5																		4
4.5	4.5																		4.5
5	4.5	4.5																	5
6	4.5	4.5	4.5																6
7	4.5	4.5	4.1																7
8	4.5	2.9	3.6	4.5															8
9	4.0	2.8	3.2	4.5															9
10	3.7	2.6	3.0	4.5															10
12	3.2	2.4	1.2	4.5			4.5			3.8									12
14	2.8	2.1	1.0	4.2	2.6		4.2			3.8			3.0			2.1			14
16	2.5	1.9	1.0	3.8	2.5		3.9	2.4		3.7	2.4		3.0			2.1			16
18	2.3	1.7	1.0	3.5	2.4	1.3	3.5	2.3		3.2	2.3		2.9	2.4		2.1	2.1		18
20	2.1	1.6	0.9	3.3	2.1	1.1	3.2	2.2	1.2	2.8	2.2	1.1	2.5	2.3	1.2	2.0	2.1		20
22		1.4	0.7	3.1	2.0	1.1	2.7	2.0	1.0	2.4	2.1	1.1	2.2	2.1	1.1	2.0	2.1	1.2	22
24				2.7	1.9	1.1	2.4	1.9	1.1	2.1	2.0	1.1	2.0	2.0	1.1	1.9	2.0	1.1	24
26				2.2	1.8	1.0	2.2	1.8	1.0	1.9	1.8	1.1	1.8	1.9	1.1	1.5	1.8	1.0	26
28				1.8	1.7	0.9	1.8	1.7	1.0	1.6	1.7	1.1	1.5	1.7	1.0	1.2	1.5	0.9	28
30				1.5	1.6	0.9	1.5	1.6	0.9	1.5	1.6	1.0	1.3	1.6	0.9	0.9	1.2	0.9	30
32				1.2	1.4	0.9	1.2	1.4	0.9	1.2	1.5	0.9	1.1	1.3	0.9		0.9	0.9	32
34				0.9	1.1	0.9	0.9	1.1	0.9	0.9	1.2	0.9	1.0	1.1	0.9			0.9	34
36					0.9	0.9		0.9	0.9		0.9	0.9	0.8	1.0	0.9				36
38						0.8			0.8			0.8			0.8				38


	10.7 m			36 m			39.6 m			43.2 m			46.9 m			50 m			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	
4	4.5																		4
4.5	4.5																		4.5
5	4.5	4.5																	5
6	4.5	4.5	4.5																6
7	4.5	4.5	4.1																7
8	4.5	2.9	3.6	4.5															8
9	4.0	2.8	3.2	4.5															9
10	3.7	2.6	3.0	4.5															10
12	3.2	2.4	1.2	4.5			4.5			3.8									12
14	2.8	2.1	1.0	4.2	2.6		4.2			3.8			3.0			2.1			14
16	2.5	1.9	1.0	3.8	2.5		3.9	2.4		3.7	2.4		3.0			2.1			16
18	2.3	1.7	1.0	3.5	2.4	1.3	3.5	2.3		3.2	2.3		2.9	2.4		2.1	2.1		18
20	2.1	1.6	0.9	3.0	2.1	1.1	2.9	2.2	1.2	2.8	2.2	1.1	2.5	2.3	1.2	2.0	2.1		20
22		1.4	0.7	2.4	2.0	1.1	2.3	2.0	1.0	2.4	2.1	1.1	2.2	2.1	1.1	1.7	2.1	1.2	22
24				1.9	1.9	1.1	1.8	1.9	1.1	1.9	2.0	1.1	1.9	2.0	1.1	1.2	1.7	1.1	24
26				1.5	1.8	1.0	1.4	1.8	1.0	1.5	1.8	1.1	1.5	1.9	1.1	0.8	1.2	1.0	26
28				1.1	1.4	0.9	1.1	1.4	1.0	1.1	1.4	1.1	1.2	1.5	1.0		0.9	0.9	28
30				0.8	1.1	0.9	0.8	1.1	0.9	0.8	1.1	1.0	0.9	1.2	0.9			0.8	30
32					0.8	0.9		0.8	0.9		0.8	0.9		0.9	0.9				32
34												0.8			0.8				34

	10.7 m			36 m			39.6 m			43.2 m			46.9 m			50 m			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°	
4	4.5																		4
4.5	4.5																		4.5
5	4.5	4.5																	5
6	4.5	4.5	4.5																6
7	4.5	4.5	4.1																7
8	4.5	2.9	3.6	4.5															8
9	4.0	2.8	3.2	4.5															9
10	3.7	2.6	3.0	4.5															10
12	3.2	2.4	1.2	4.5			4.5			3.8									12
14	2.8	2.1	1.0	4.2	2.6		4.2			3.8			3.0			2.1			14
16	2.5	1.9	1.0	3.8	2.5		3.9	2.4		3.7	2.4		3.0			2.1			16
18	2.3	1.7	1.0	3.5	2.4	1.3	3.5	2.3		3.2	2.3		2.9	2.4		2.1	2.1		18
20	2.1	1.6	0.9	2.8	2.1	1.1	2.8	2.2	1.2	2.8	2.2	1.1	2.5	2.3	1.2	2.0	2.1		20
22		1.4	0.7	2.2	2.0	1.1	2.2	2.0	1.0	2.2	2.1	1.1	2.2	2.1	1.1	1.5	2.1	1.2	22
24				1.7	1.9	1.1	1.7	1.9	1.1	1.8	2.0	1.1	1.8	2.0	1.1	1.1	1.6	1.1	24
26				1.3	1.7	1.0	1.3	1.7	1.0	1.3	1.7	1.1	1.4	1.8	1.1		1.1	1.0	26
28				1.0	1.3	0.9	1.0	1.3	1.0	1.0	1.3	1.1	1.1	1.4	1.0			0.9	28
30					1.0	0.9		1.0	0.9		1.0	1.0	0.8	1.1	0.9				30
32						0.9			0.9			0.9		0.8	0.9				32
34															0.8				34


I 2.5 m
T 50 m
60
50
40
30
20
10
m
0
10
20
30
40
50
10.7
14.3
17.9
21.5
25.1
28.8
32.4
36
39.6
43.2
46.9
50

Load charts-counterweight in the rear position

I 2.5 m

	10.7	14.3	17.9	21.5	25.1	28.8	32.4	36	39.6	43.2	46.9	50	
3	17.7	17.7	17.7										3
3.5	17.7	17.7	17.7										3.5
4	17.7	17.7	17.7										4
4.5	17.7	17.7	17.7	17.7									4.5
5	17.7	17.7	17.7	17.7									5
6	17.7	17.7	17.7	17.7	17.7	17.7							6
7	15.6	17.7	17.7	17.7	17.7	17.4	14.1						7
8	13.3	17.7	17.7	17.7	17.7	15.9	12.8	10.5					8
9	11.5	16.9	17.5	17.7	17.7	14.6	11.6	9.5	8.2				9
10		14.6	16	15.4	15.4	13.4	10.5	8.7	7.4	6.6	5.1		10
11		12.5	13.7	13.2	13.2	12	9.5	7.7	6.6	5.8	5	3.4	11
12		11.7	12	11.6	11.8	11.5	9	7.2	6.2	5.4	5	3.4	12
13			10.6	10.7	10.7	10.4	8.1	6.5	5.5	4.9	4.5	3.4	13
14			9.4	9.7	9.5	9.2	7.7	6.1	5.2	4.7	4.2	3.4	14
15			8.4	8.7	8.5	8.2	7	5.5	4.7	4.2	3.8	3.2	15
16			7.6	7.8	7.7	7.4	6.7	5.2	4.5	3.9	3.6	3.2	16
17				7.1	7	6.7	6.1	4.8	4.1	3.5	3.2	2.9	17
18				6.5	6.3	6.1	5.8	4.6	3.9	3.3	3	2.8	18
19				5.9	5.8	5.5	5.3	4.2	3.6	3.1	2.8	2.5	19
20					5.3	5.2	4.9	4	3.5	3	2.7	2.3	20
21					4.9	4.9	4.5	3.7	3.2	2.7	2.4	2.1	21
22					4.5	4.6	4.1	3.5	3	2.6	2.3	1.9	22
23						4.3	3.8	3.2	2.8	2.3	2	1.8	23
24						3.9	3.5	3.1	2.7	2.2	1.9	1.8	24
25						3.7	3.2	2.8	2.5	2	1.8	1.6	25
26							2.9	2.7	2.4	2	1.8	1.5	26
27							2.7	2.5	2.3	1.9	1.5	1.3	27
28							2.6	2.4	2.2	1.8	1.4	1.3	28
29								2.2	2	1.6	1.3	1.2	29
30								2.1	2	1.5	1.2	1.1	30
31								1.5	1.8	1.3	1.1	0.9	31
32								1.2	1.7	1.3	1.1	0.9	32
33									1.3	1.2	1	0.8	33
34									1.2	1.1	0.9	0.7	34
35										0.8	0.9		35
36										0.7	0.8		36
37											0.7		37

	10.7	14.3	17.9	21.5	25.1	28.8	32.4	36	39.6	43.2	46.9	50	
3	17.7	17.7	17.7										3
3.5	17.7	17.7	17.7										3.5
4	17.7	17.7	17.7										4
4.5	17.7	17.7	17.7	17.7									4.5
5	17.7	17.7	17.7	17.7									5
6	17.7	17.7	17.7	17.7	17.7	17.7							6
7	15.6	17.7	17.7	17.7	17.7	17.4	14.1						7
8	13.3	17.7	17.7	17.7	17.7	15.9	12.8	10.5					8
9	11.5	16	16	15.4	15.5	14.6	11.6	9.5	8.2				9
10		13.5	13.5	13.5	13.6	13.3	10.5	8.7	7.4	6.6			10
11		11.5	11.6	11.8	11.7	11.3	9.5	7.7	6.6	5.8	5		11
12		10	10.1	10.3	10.1	9.8	9	7.2	6.2	5.4	5	3.4	12
13			8.8	9.1	8.9	8.6	8.1	6.5	5.5	4.9	4.5	3.4	13
14			7.8	8.1	7.9	7.6	7.5	6.1	5.2	4.7	4.2	3.4	14
15			7	7.2	7	6.8	6.7	5.5	4.7	4.2	3.8	3.2	15
16			6.2	6.5	6.3	6.5	6	5.2	4.5	3.9	3.6	3.2	16
17				5.9	5.7	5.9	5.3	4.8	4.1	3.5	3.2	2.9	17
18				5.3	5.1	5.3	4.8	4.6	3.9	3.3	3	2.8	18
19				4.8	4.7	4.8	4.3	4.1	3.6	3.1	2.8	2.5	19
20					4.2	4.4	3.9	3.9	3.5	3	2.7	2.3	20
21					3.9	4	3.6	3.6	3.2	2.7	2.4	2.1	21
22					3.5	3.7	3.5	3.2	3	2.6	2.3	1.9	22
23						3.4	3.3	2.9	2.8	2.3	2	1.8	23
24						3.1	3.2	2.6	2.7	2.2	1.9	1.8	24
25						2.8	2.9	2.4	2.5	2	1.8	1.6	25
26							2.7	2.2	2.4	2	1.8	1.4	26
27							2.5	2	2.3	1.9	1.5	1.2	27
28							2.3	2	2.1	1.8	1.4	1	28
29								1.8	1.9	1.6	1.3	0.9	29
30								1.8	1.7	1.5	1.2	0.7	30
31								1.3	1.6	1.3	1.1		31
32								1.1	1.4	1.3	1.1		32
33									1.3	1.2	1		33
34									1.1	1.1	0.9		34
35										0.8	0.8		35
36										0.7	0.7		36
37											0.7		37

Load charts-counterweight in the rear position

I 2.5 m

	10.7	14.3	17.9	21.5	25.1	28.8	32.4	36	39.6	43.2	46.9	50	
3	17.7	17.7	17.7										3
3.5	17.7	17.7	17.7										3.5
4	17.7	17.7	17.7										4
4.5	17.7	17.7	17.7	17.7									4.5
5	17.7	17.7	17.7	17.7									5
6	17.7	17.7	17.7	17.7	17.7	17.7							6
7	15.6	17.7	17.7	17.7	17.7	17.4	14.1						7
8	13.3	17.7	17.7	17.7	17.7	15.9	12.8	10.5					8
9	11.5	15.6	15.6	15	15.1	14.6	11.6	9.5	8.2				9
10		13.1	13.2	13.4	13.3	12.9	10.5	8.7	7.4	6.6			10
11		11.3	11.3	11.6	11.4	11.1	9.5	7.7	6.6	5.8	5		11
12		9.8	9.8	10.1	9.9	9.6	9	7.2	6.2	5.4	5	3.4	12
13			8.6	8.9	8.7	8.4	8.1	6.5	5.5	4.9	4.5	3.4	13
14			7.6	7.9	7.7	7.4	7.3	6.1	5.2	4.7	4.2	3.4	14
15			6.8	7	6.8	6.7	6.5	5.5	4.7	4.2	3.8	3.2	15
16			6.1	6.3	6.1	6.3	5.8	5.2	4.5	3.9	3.6	3.2	16
17				5.7	5.5	5.7	5.2	4.8	4.1	3.5	3.2	2.9	17
18				5.1	5	5.1	4.6	4.5	3.9	3.3	3	2.8	18
19				4.7	4.5	4.7	4.2	4.1	3.6	3.1	2.8	2.5	19
20					4.1	4.3	3.9	3.8	3.5	3	2.7	2.3	20
21					3.7	3.9	3.6	3.4	3.2	2.7	2.4	2.1	21
22					3.4	3.6	3.5	3.1	3	2.6	2.3	1.9	22
23						3.2	3.3	2.8	2.8	2.3	2	1.8	23
24						3	3.1	2.5	2.7	2.2	1.9	1.8	24
25						2.7	2.8	2.3	2.5	2	1.8	1.6	25
26							2.6	2.2	2.4	2	1.8	1.3	26
27							2.4	2	2.2	1.9	1.5	1.1	27
28							2.2	2	2	1.8	1.4	0.9	28
29								1.8	1.8	1.6	1.3	0.8	29
30								1.8	1.6	1.5	1.2	0.6	30
31								1.2	1.5	1.3	1.1		31
32								1	1.3	1.3	1.1		32
33									1.2	1.1	1		33
34									1.1	1	0.8		34
35										0.8	0.7		35
36										0.7	0.6		36

Load charts-counterweight in the rear position

I 2.5 m

	10.7	14.3	17.9	21.5	25.1	28.8	32.4	36	39.6	43.2	46.9	50	
3	17.7	17.7	17.7										3
3.5	17.7	17.7	17.7										3.5
4	17.7	17.7	17.7										4
4.5	17.7	17.7	17.7	17.7									4.5
5	17.7	17.7	17.7	17.7									5
6	17.7	17.7	17.7	17.7	17.7	17.7							6
7	15.6	17.7	17.7	17.7	17.7	17.4	14.1						7
8	13.3	17.7	17.7	17.7	17.7	15.9	12.8	10.5					8
9	11.5	15.3	15.4	14.8	14.9	14.6	11.6	9.5	8.2				9
10		12.9	13	13.2	13	12.7	10.5	8.7	7.4	6.6			10
11		11.1	11.1	11.4	11.2	10.9	9.5	7.7	6.6	5.8	5		11
12		9.6	9.6	9.9	9.7	9.4	9	7.2	6.2	5.4	5	3.4	12
13			8.4	8.7	8.5	8.2	8	6.5	5.5	4.9	4.5	3.4	13
14			7.5	7.7	7.5	7.4	7.2	6.1	5.2	4.7	4.2	3.4	14
15			6.6	6.9	6.7	6.7	6.3	5.5	4.7	4.2	3.8	3.2	15
16			5.9	6.2	6	6.2	5.7	5.2	4.5	3.9	3.6	3.2	16
17				5.6	5.4	5.6	5.1	4.8	4.1	3.5	3.2	2.9	17
18				5	4.9	5	4.5	4.5	3.9	3.3	3	2.8	18
19				4.6	4.4	4.6	4.1	4.1	3.6	3.1	2.8	2.5	19
20					4	4.2	3.9	3.7	3.5	3	2.7	2.3	20
21					3.6	3.8	3.6	3.3	3.2	2.7	2.4	2.1	21
22					3.3	3.5	3.5	3	3	2.6	2.3	1.9	22
23						3.2	3.3	2.7	2.8	2.3	2	1.8	23
24						2.9	3	2.5	2.7	2.2	1.9	1.7	24
25						2.7	2.8	2.3	2.5	2	1.8	1.5	25
26							2.5	2.2	2.3	2	1.8	1.3	26
27							2.3	2	2.1	1.9	1.5	1.1	27
28							2.1	2	1.9	1.8	1.4	0.9	28
29								1.8	1.7	1.6	1.3	0.7	29
30								1.8	1.6	1.5	1.2		30
31								1.2	1.4	1.3	1.1		31
32								1	1.3	1.2	1		32
33									1.1	1.1	0.9		33
34									1	0.9	0.8		34
35										0.8	0.7		35
36										0.7			36

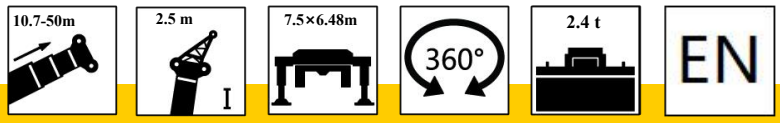
Load charts-counterweight in the rear position

I 2.5 m

	10.7	14.3	17.9	21.5	25.1	28.8	32.4	36	39.6	43.2	46.9	50	
3	17.7	17.7	17.7										3
3.5	17.7	17.7	17.7										3.5
4	17.7	17.7	17.7										4
4.5	17.7	17.7	17.7	17.7									4.5
5	17.7	17.7	17.7	17.7									5
6	17.7	17.7	17.7	17.7	17.7	17.7							6
7	15.6	17.7	17.7	17.7	17.7	17.4	14.1						7
8	13.3	15.3	15.3	15.7	15.4	15.1	12.8	10.5					8
9	11.5	12.5	12.5	12.8	12.6	12.3	11.6	9.5	8.2				9
10		10.5	10.5	10.8	10.6	10.3	10.1	8.7	7.4	6.6			10
11		8.9	8.9	9.2	9	8.8	8.6	7.7	6.6	5.8	5		11
12		7.7	7.7	8	7.8	8	7.4	7.2	6.2	5.4	5	3.4	12
13			6.7	6.9	6.8	6.9	6.4	6.3	5.5	4.9	4.5	3.4	13
14			5.9	6.1	5.9	6.1	5.6	5.6	5.2	4.7	4.2	3.4	14
15			5.2	5.4	5.2	5.4	5.2	4.9	4.7	4.2	3.8	3.2	15
16			4.6	4.8	4.6	4.8	4.9	4.3	4.5	3.9	3.6	3.2	16
17				4.3	4.1	4.3	4.4	3.8	4.1	3.5	3.2	2.9	17
18				3.9	3.7	3.9	4	3.6	3.7	3.3	3	2.6	18
19				3.5	3.3	3.5	3.6	3.3	3.3	3.1	2.8	2.2	19
20					3	3.1	3.2	3.2	3	2.9	2.7	1.9	20
21					2.6	2.8	2.9	2.9	2.7	2.6	2.4	1.6	21
22					2.4	2.5	2.6	2.6	2.4	2.3	2.1	1.3	22
23						2.3	2.4	2.3	2.1	2	1.9	1	23
24						2	2.1	2.1	1.9	1.8	1.6	0.8	24
25						1.8	1.9	1.9	1.7	1.6	1.4	0.6	25
26							1.7	1.7	1.5	1.4	1.2		26
27							1.5	1.5	1.3	1.2	1.1		27
28							1.4	1.4	1.1	1.1	0.9		28
29								1.2	1	0.9	0.8		29
30								1.1	0.9	0.8	0.6		30
31								0.9	0.7	0.6			31
32								0.8	0.6				32

Load charts-counterweight in the rear position

I 2.5 m



	10.7	14.3	17.9	21.5	25.1	28.8	32.4	36	39.6	43.2	46.9	50	
3	17.7	17.7	17.7										3
3.5	17.7	17.7	17.7										3.5
4	17.7	17.7	17.7										4
4.5	17.7	17.7	17.7	17.7									4.5
5	17.7	17.7	17.7	17.7									5
6	17.7	17.7	17.7	17.7	17.7	17.7							6
7	15.6	17.7	17.7	17.7	17.7	17.4	14.1						7
8	13.3	14.9	14.9	15.2	15	14.6	12.8	10.5					8
9	11.5	12.1	12.2	12.5	12.3	11.9	11.6	9.5	8.2				9
10		10.1	10.2	10.4	10.3	9.9	9.8	8.7	7.4	6.6			10
11		8.6	8.6	8.9	8.7	8.8	8.3	7.7	6.6	5.8	5		11
12		7.4	7.4	7.7	7.5	7.7	7.1	7	6.2	5.4	5	3.4	12
13			6.5	6.7	6.5	6.7	6.2	6.2	5.5	4.9	4.5	3.4	13
14			5.7	5.9	5.7	5.9	5.6	5.4	5.2	4.7	4.2	3.4	14
15			5	5.2	5	5.2	5.2	4.7	4.7	4.2	3.8	3.2	15
16			4.4	4.6	4.5	4.6	4.7	4.2	4.5	3.9	3.6	3.2	16
17				4.1	4	4.1	4.2	3.7	4	3.5	3.2	2.9	17
18				3.7	3.5	3.7	3.8	3.6	3.6	3.3	3	2.4	18
19				3.3	3.2	3.3	3.4	3.3	3.2	3.1	2.8	2	19
20					2.8	3	3.1	3.1	2.8	2.7	2.6	1.7	20
21					2.5	2.7	2.8	2.7	2.5	2.4	2.3	1.4	21
22					2.2	2.4	2.5	2.5	2.2	2.2	2	1.1	22
23						2.1	2.2	2.2	2	1.9	1.7	0.9	23
24						1.9	2	2	1.8	1.7	1.5	0.7	24
25						1.7	1.8	1.8	1.6	1.5	1.3		25
26							1.6	1.6	1.4	1.3	1.1		26
27							1.4	1.4	1.2	1.1	1		27
28							1.3	1.2	1	0.9	0.8		28
29								1.1	0.9	0.8	0.6		29
30								1	0.7	0.7			30
31								0.8	0.6				31
32								0.7					32

Table of main technical parameters

Category	Item		Unit	Parameters
Dimensions	Dimensions (L×W×H)		mm	12019×2800×3900
	Axle spacing		mm	2950+1650
	Track (front/rear)		mm	2194
	Front overhang/rear overhang		mm	3206/3551
	Front extension / rear extension		mm	1487/0
Weight	Maximum permissible total weight		kg	36000
	Axle load	Axle 1	kg	12000
		Axle 2	kg	12000
		Axle 3	kg	12000
Power	Engine model		——	OM470LA
	Maximum net power/rpm		kW/(r/min)	280/1700
	Maximum output torque/rpm		N·m/(r/min)	1900/1300
Travel	Maximum travel speed		km/h	≥85
	Minimum stable travel speed		km/h	≤4
	Minimum turning diameter		m	≤16
	Minimum ground clearance		mm	330
	Approach angle		°	19
	Departure angle		°	12
	Braking distance (initial speed at 30km/h)		m	≤10
	Maximum grade ability		%	60
	Fuel consumption per 100 km		L	60
Noise	Noise level when accelerating		dB(A)	≤83

Table of main technical parameters

Category	Item			Unit	Parameters
Main performance	Maximum rated total lifting capacity			t	60
	Minimum rated working radius			m	2.1
	Turning radius at turntable tail	At counterweight		mm	3600
		At auxiliary winch		mm	4100
	Maximum load moment	Base boom section		kN·m	1605
		Fully-extended boom		kN·m	983
		Fully-extended boom + jib		kN·m	475
	Outrigger span	Longitudinal		m	7.5
		Lateral		m	6.48 (4.28)
	Lifting height	Base boom section		m	11
		Fully-extended boom		m	50.5
		Fully-extended boom + jib		m	63.8
	Boom length	Base boom section		m	10.7
		Fully-extended boom		m	50
		Fully-extended boom + jib		m	66
	Jib offset angle			°	0, 15, 30
Parameters of working speeds	Time for raising boom			s	≤60
	Time for fully extending the boom			s	≤350
	Maximum slewing speed			r/min	≥1.5
	Time for extending/retracting outriggers	Outrigger beam	Retracting	s	≤35
			Extending	s	≤35
		Outrigger jacks	Retracting	s	≤30
			Extending	s	≤40
	Hoisting speed (single line, no load)	Main winch system		m/min	≥135
		Auxiliary winch system		m/min	≥135
Noise	At driver position			dB(A)	≤85

Description of symbols

	Superstructure
	Rated lifting load
	Counterweight
	Slewing radius of variable-position counterweight
	Hook block
	Parts of line
	Boom length combination
	Wind speed
	Configuration
	Optional equipment
	Wire rope length
	Wire rope diameter
	Maximum single line pull
	Maximum working speeds
	Main winch
	Auxiliary winch

	Boom
	Boom length
	Working radius
	Lifting height with boom
	Boom angle
	Extension
	Independent jib head
	Simple jib head
	Fixed jib
	Fixed jib length
	Fixed jib offset angle
	Luffing jib
	Maximum lifting height
	Maximum working radius
	Super lift
	Wind power jib

Description of symbols

	Chassis
	Outrigger span
	Tires
	Axle load
	Grade ability
	Travel speed
	EN 13000 standard

	Luffing
	Telescoping
	Slewing
	360° slewing
	360° slewing with the fifth jack down
	Side and rear operation
	Operation over front
	Operation over rear

Notes

1. The document is intended as reference only. It is only a guide and should not be used to operate the crane. See product manuals for correct operation instructions.
2. The load capacity values in the tables are stated in t, which are the maximum total load capacity of the crane on a stable and even surface under the current boom length and radius, including the weight of hooks and rigging. The weight of the above devices must be subtracted during lifting operations.
3. The working radius is the horizontal gravity center distance of the load from the rotational axis of the crane superstructure measured at 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.
5. A lifting operation is permissible only when the wind force is below grade 5 (instantaneous wind speed of 14.1 m/s, wind pressure of 125 N/㎡).

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