

XCA 900L8 All Terrain Crane

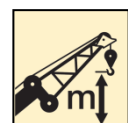
Technical specifications



900t



105m



160m

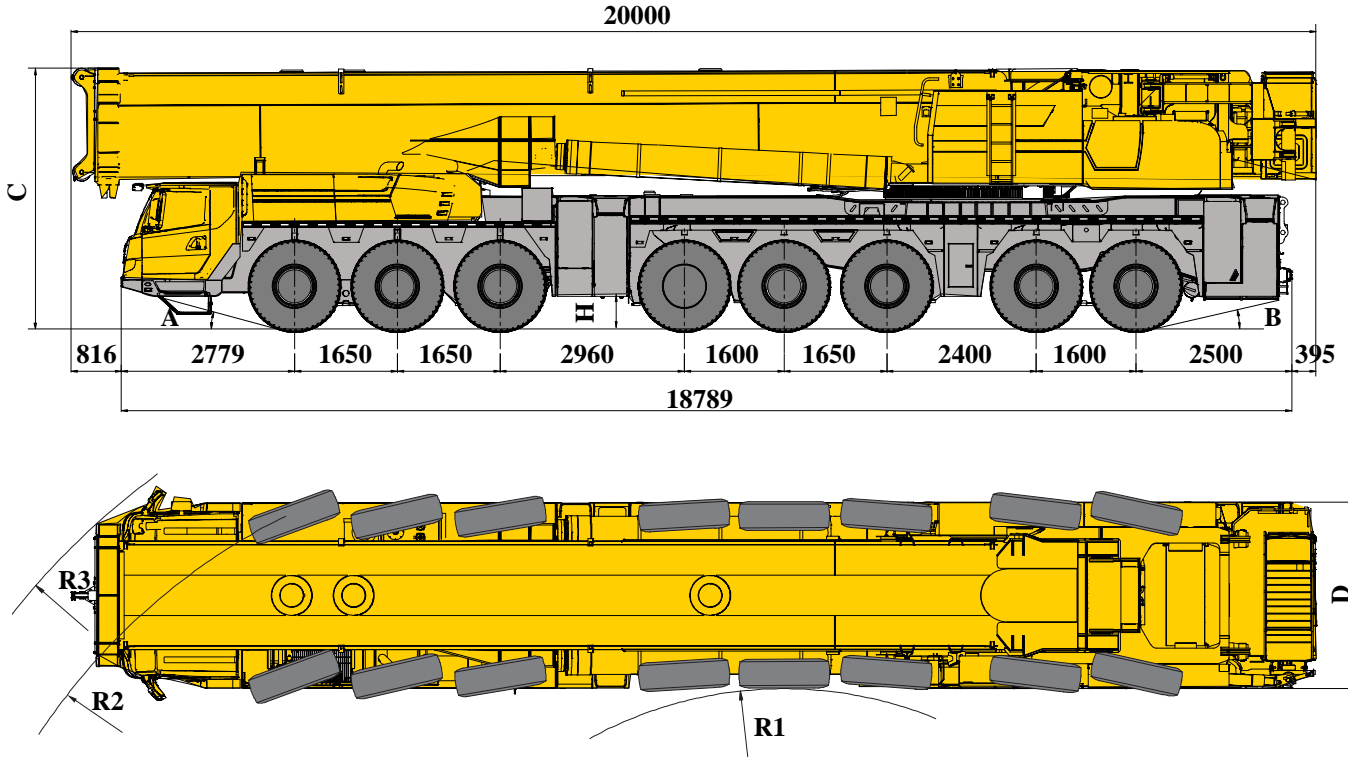
1st edition, May. 2023


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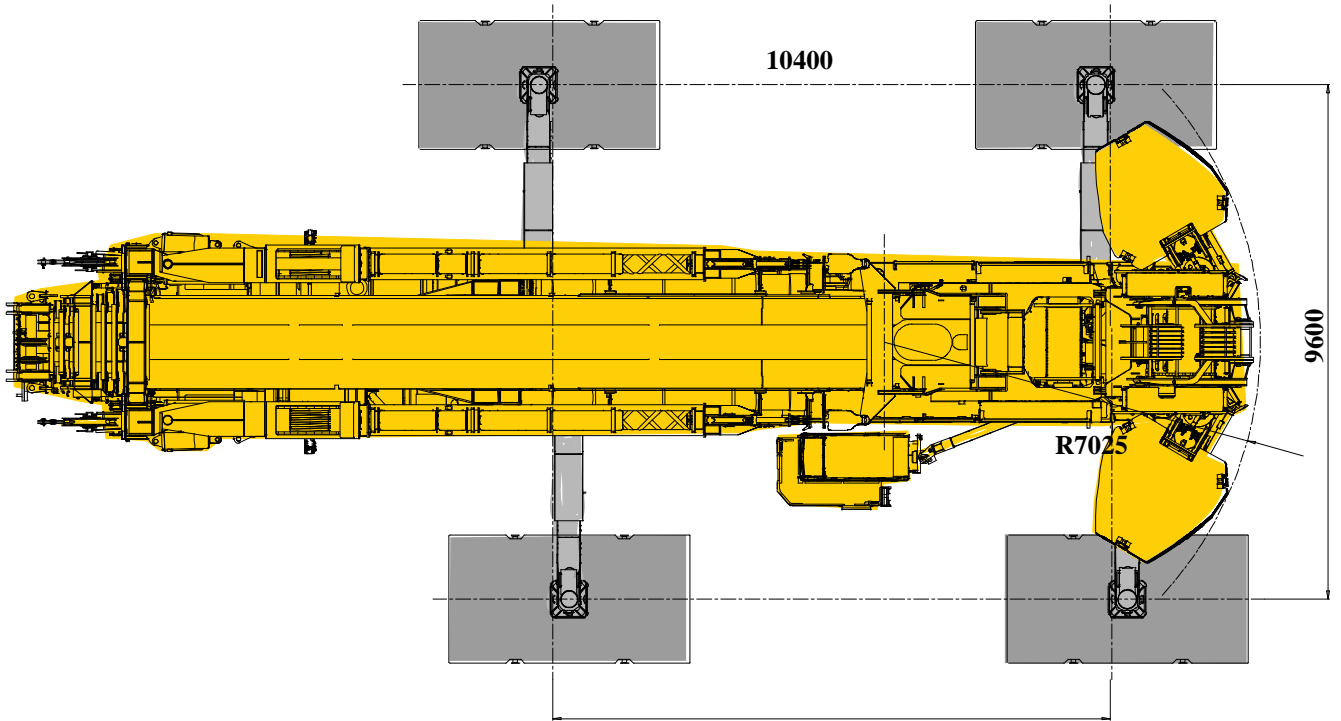
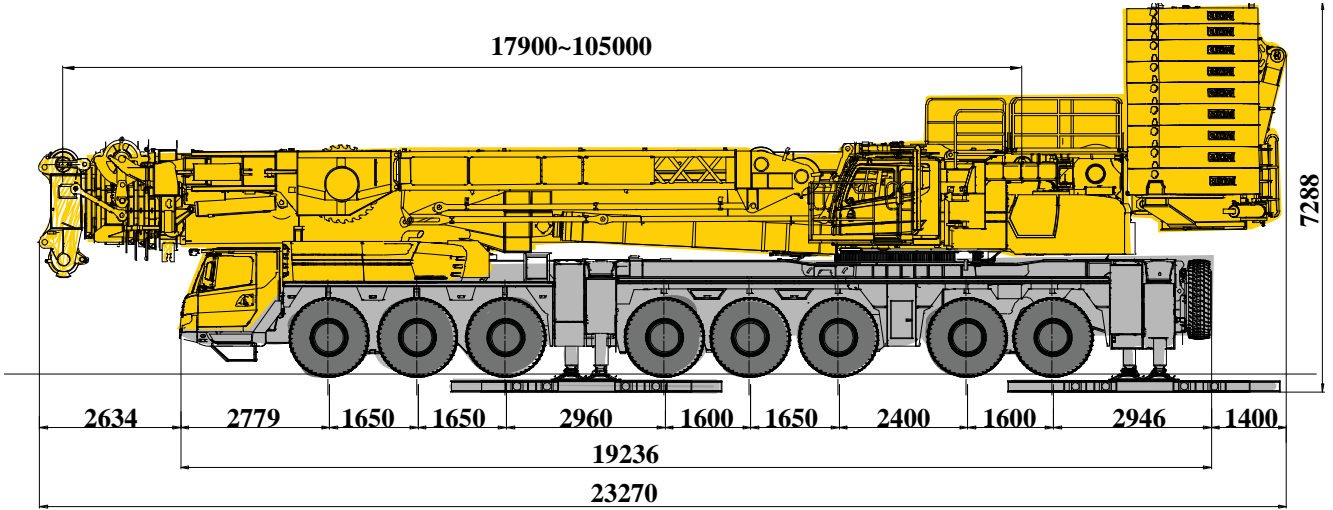
Dimensions



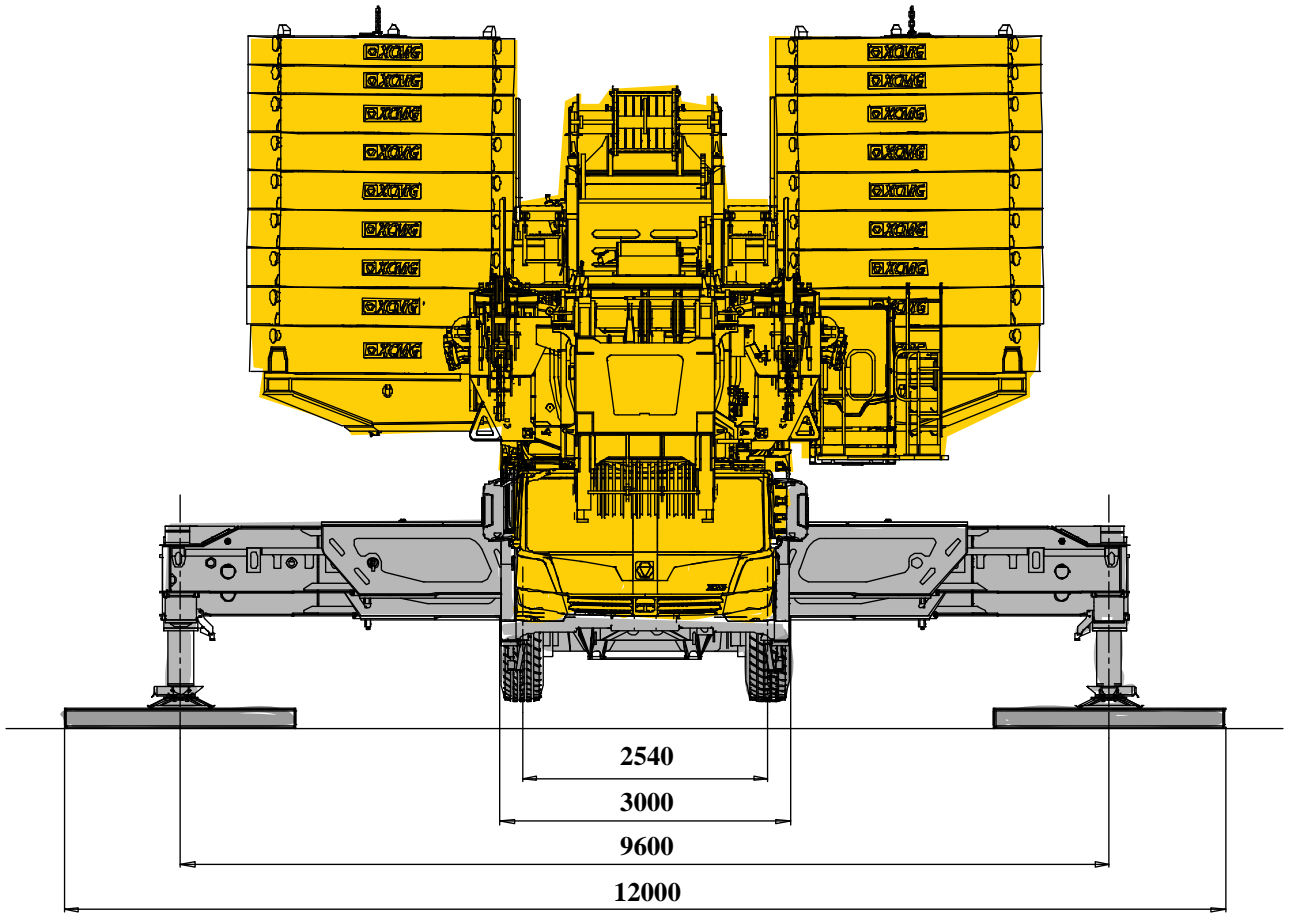
	A	B	C	D	H*	R1	R2	R3
445/95R25	15.2°	13°	4000	3000	330	6800	13500	15200

Height with * followed is the value while suspensions are in neutral position.

Dimensions



Dimensions



Technical specifications



Chassis

Frame	Designed and manufactured by XCMG, made of high strength steel.
Outriggers	4 outriggers are arranged in H shape. The 2-stage outrigger beams are adopted. Longitudinal and vertical telescoping movements are hydraulic controlled. Check valve is fitted at each outrigger oil cylinder and each jack is fitted with a double-way hydraulic valve. There is an electric control panel fitted at each side of the chassis with luminous level gauge, lamp and accelerator buttons.
Engine	<p>Benz Engine OM473LA.6-57 In-line, 6 cylinders, water cooled, electric control diesel engine, manufactured by Daimler AG, Rated power 480kw /1600rpm; Max. torque 3100Nm /1100rpm; compliant with China VI emission standard. Fuel tank capacity: 600 L.</p> <p>Weichai engine WP15H660E61 Rated power 485kW/1800rpm Max. torque 3200Nm/900-1400rpm. compliant with China VI emission standard. Fuel tank capacity: 600 L.</p>
Hydraulic system	The variable displacement pump is connected to the engine through PTO for controlling the movements of outriggers, steering, suspension and heat dissipation.
Transmission	ZF electrical-control automatic transmission with torque converter and retarder, 12 forward gears and 2 reverse gears.
Axles	Axles with high strength and heavy load bearing capacity . Equipped with pneumatically controlled disc brake.1 st , 2 nd , 4 th and 5 th axles mechanical drive, the 8th axle hydraulic drive: 16×10.
Suspension	Hydro-pneumatic suspension system has good shock-absorbing effect. Various functions such as automatic leveling, moving up and down of suspension, and switching over of elastic and rigid suspension are available. The stroke of suspension cylinder is -100mm~+140mm.

Tires	Bridgestone and Michelin tires. Tire specifications: 445/95 R25 (16.00R25)
Braking system	<p>Service brake: dual-circuit air pressure brake, acting on all wheels.</p> <p>Parking brake: spring-loaded brake, acting on wheels of axles 2-6.</p> <p>Auxiliary brake: engine brake, transmission retarder brake and electric eddy-current retarder brake.</p>
Driver's cab	<p>New full dimension steel structure cab, with suspension connecting structure, is equipped with shock absorbers at the rear of the cab. Multi-function steering wheel is equipped, easy to operate. It is equipped with adjustable seats, safety glass, electrically operated door window lifter, electric-adjustable mirrors, steering wheel adjustable in height and angle, backup camera, large screen liquid crystal display, etc. New combined central control panel is reasonably arranged with arc shape adopted, presenting human-oriented design concept.</p> <p>Heater, air conditioner and CD player are standard.</p>
Electrical system	DC 24 V, with 2 sets of 12 V batteries in series.

Technical specifications



Superstructure

Frame	Designed and manufactured by XCMG, made of high strength steel.
Hydraulic system	Electric proportional closed pump is used for lifting and slewing operations; electric proportional open pump is used for luffing and telescoping operations. Through logic control of plug-in valve spool, main valve is used to control telescoping and luffing operations; large power air-cooled hydraulic oil cooler can effectively reduce the oil temperature.
Control system	The pilot electric and hydraulic proportional control, stepless speed regulation, all movements of the crane is controlled by two levers at left and right sides and virtual keys on the display screen.
Main winch	Driven by a hydraulic motor, with build-in planetary gear reducer and constant-closed brake. Specific anti-disorder rope winding drum and anti-coiling wire rope are available.
Engine	In-line, 6 cylinders, water cooled, electric injection diesel engine, compliant with China IV emission standard. WP7G300E472 manufactured by Weichai. Rated power: 220Kw/2200rpm , Max. torque: 1200 N.m /(1400~1600) rpm Fuel tank capacity: 300 L. The hydraulic pump disconnect is adopted to improve the cold starting performance.
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.

Safety device	The crane is equipped with hydraulic balance valve, hydraulic relief valve, hydraulic double-way valve, load moment indicator (LMI), lowering limiter to prevent rope over-releasing, anti-two block on the boom head to prevent rope over-winding and anemometer to check the wind speed.
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.
Electrical system	DC 24 V, with 2 sets of 12 V batteries in series.
Load moment indicator	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 self-diagnosis function are available.
Counterweight	180 t in total: 22 t base + 10 t slab × 12, 9t slabs × 2, and 5t slabs × 2. The counterweight can be movable forward or backward.
Hook block	130 t hook block. Double-hook, deadweight of 2900kg, Parts of line: 9

Technical specifications

Boom	8-section boom with U cross-section, welding structure. 2-cylinder pin telescoping cylinder is available. A new type cylinder pin synchronizer driving system is adopted to guarantee the synchrony of the two cylinder pins. The single cylinder pinning telescoping system is safer and more reliable. 46%, 92% and fully-extended telescoping modes can be realized. Boom length: 17.9m~105m
Super lifting device	Y-shaped, installed at top of base boom, with wire rope with 2 parts of line available. Intelligent auxiliary tensioning function and emergency function are applied.
Wind power jib	Wind power jib: 36 m, 42 m, 48 m, 54 m and 60 m.
Fixed jib	Lattice jib, welded structure, three offset angles: 0° , 20° , 40° . Luffing length of 14 m~56 m. Length of the fixed section of wing-type connecting bracket is 6.6 m. The lattice jib of this crane is the same as XCA350-XCA500, XCA750, XCA700 and QAY650A.
Luffing jib	Lattice welded structure; three boom angles: 69° , 77° , 85° Luffing jib: 28 m~91 m. Length of the wing-type connecting bracket is 8.4m; The lattice jib of this crane is the same as XCA350-XCA500, XCA750, XCA700 and QAY650A.
Winch system for luffing jib	It consists of sheaves for jib luffing.

Function description / Optional equipments

Version	Function description	Selection
Standard	Boom +super lift + wind power jib (8-section boom of 105 m and wind power jib of 60 m)	
Strengthened	Boom+ super lift+ wind power jib + fixed jib (8-section boom of 105m, wind power jib of 60 m, fixed jib of 56+6.6m)	
Full configuration	Boom + super lift+ wind power jib + fixed jib + luffing jib (8-section boom of 105 m, wind power jib of 60m, fixed jib of 56+6.6 m, luffing jib of 91+8.4 m)	

Optional equipments		Selection
Hook	300 t hook	
	205 t hook	
	50 t hook	
5-section boom head of 0.7 m		
OBU device		
<p>Notes:</p> <p>The options are available for three versions. (The option is available for three versions.) The optional tires can be purchased in XCMG spare parts sales department.</p>		

Weight



	1	2	3	4	5	6	7	8	Total weight
t	12	12	12	12	12	12	12	12	96t ⁽¹⁾
t	19.8	19.8	19.8	19.8	22	22	22	22	167.2 ⁽²⁾
t	26	26	26	26	21	21	21	21	188t ⁽³⁾
t	16.2	16.2	16.2	16.2	21.7	21.7	21.7	21.7	151.6t ⁽⁴⁾
t	22.4	22.4	22.4	22.4	20.7	20.7	20.7	20.7	172.4t ⁽⁵⁾

Notes:

(1) 96t: declared crane travel configuration

Superstructure: hook block, 2nd-8th boom section, super lift, counterweight, wind power jib, fixed jib assembly, luffing jib assembly and lifting mechanism (wire rope included) are removed.

Chassis: rear outrigger beams and outrigger floats are removed.

(2) 167.2 t: short-distance jobsite transfer I

Configuration of 96t +2nd-8th boom, lifting mechanism (wire rope included), all outrigger beams and outrigger float.

(3) 188t: heavy load jobsite transfer II

Configuration of 167.2 t + super lift.

(4) 151.6 t: heavy load jobsite transfer with 5 boom sections

Configuration of 96 t +2nd-5th boom, lifting mechanism (wire rope included), all outrigger beams and outrigger float.

(5) 172.4 t: heavy load jobsite transfer with 5 boom sections






Configuration of 127.2 t + super lift.



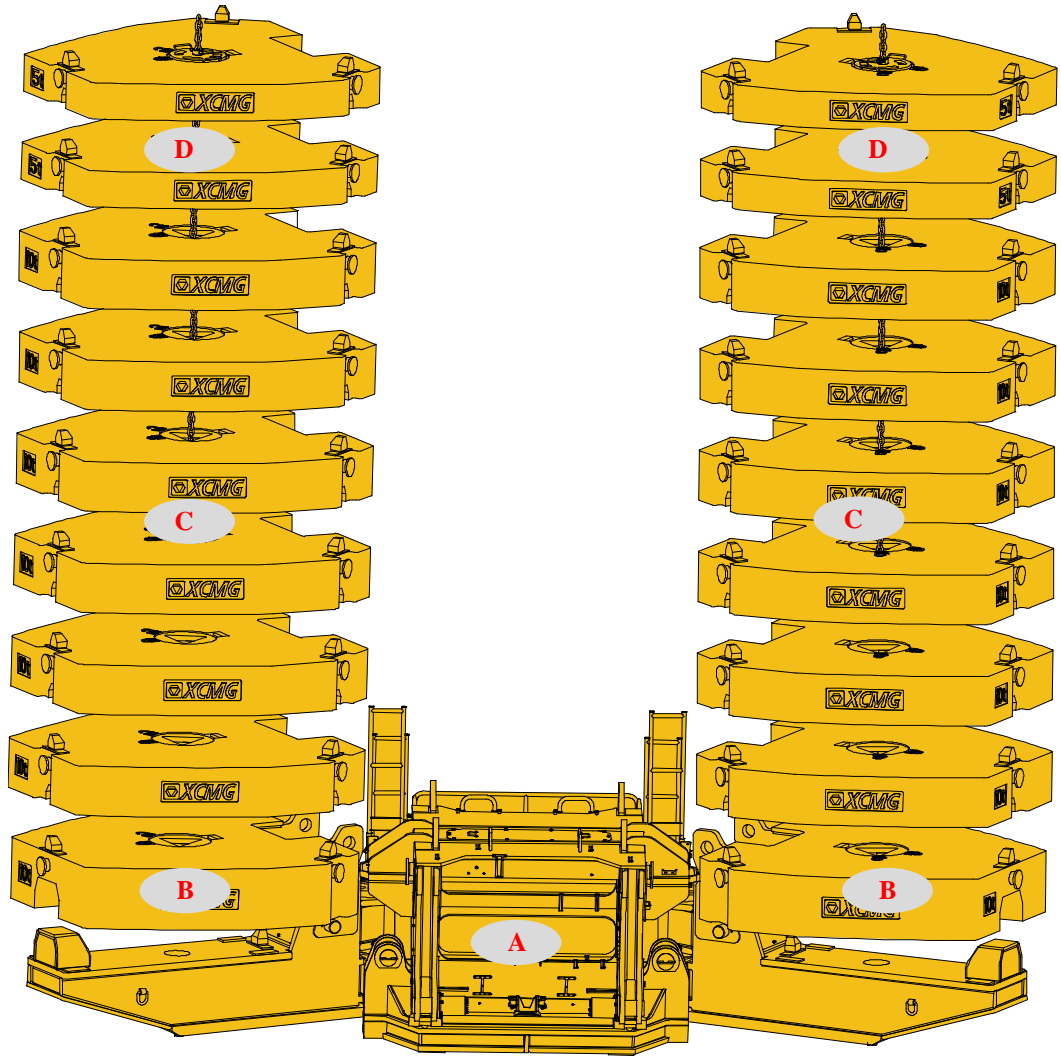
	Parts of line	Weight (kg)	Dimensions (mm)
300 t	26	5800	750×1450×2610
205 t	15	3800	750×960×2250
130 t	9	2900	750×720×2150
50 t	3	1500	750×470×1750

Working speeds



	Working speeds	Max. single line pull	Rope diameter/ length
	0-145 m/min, single line, no load, 10th layer	15.9t	26 mm/1000 m
	0-130 m/min, single line, no load, 10th layer	15.9t	26 mm/1150 m
	0-1 r/min		
	Approx. 130 s for boom luffing from -0.2° to 85°		
	Approx. 1700 s for boom extension from 17.9m to 105m (8 th boom section) Approx. 960 s for boom extension from 17.9 m to 67m (5 th boom section)		

Counterweight

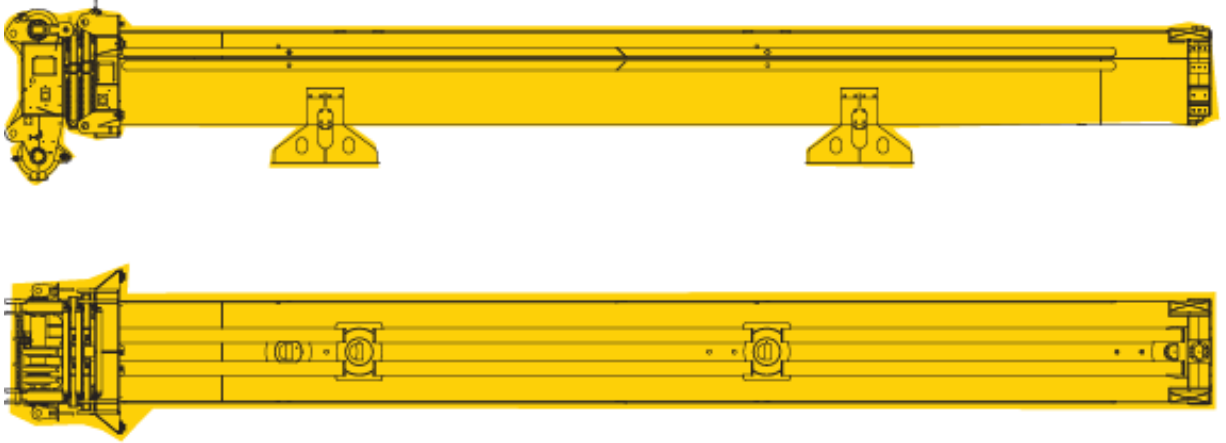


Counterweight	A×1	B×2	C×12	D×4
Dimensions (L×W×H) mm	7900×2450×1800	2700×2600×620	2400×2600×520	2400×2600×420
Weight (t)	22	9	10	5

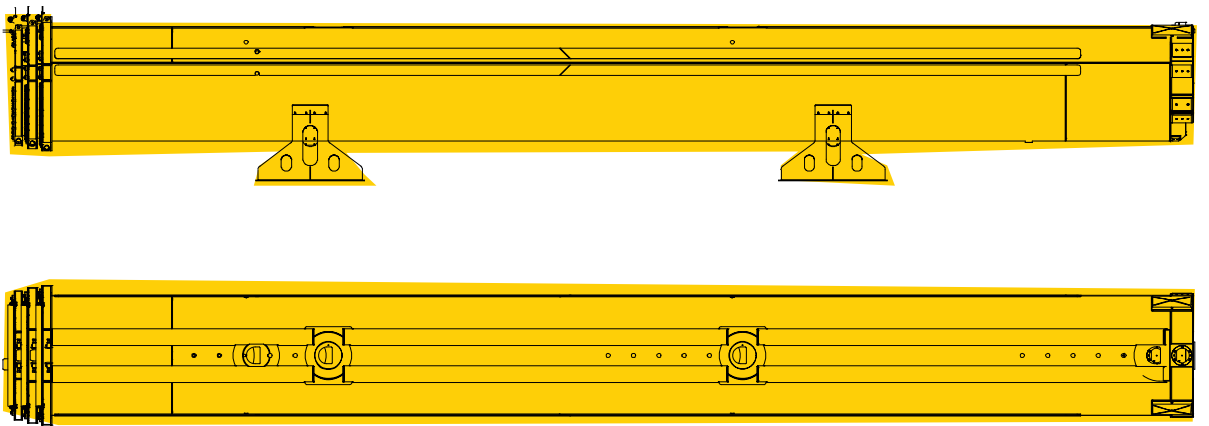
Operation mode	180t	160t	140t	120t	100t	80t	60t	40t	22t	0t
Combinations	A+B×2+C×12+D×4	A+B×2+C×12	A+B×2+C×10	A+B×2+C×8	A+B×2+C×6	A+B×2+C×4	A+B×2+C×2	A+B×2	A	/

Dimensions of parts to be transported

5th-8th boom sections; Weight: 27.2 t; Dimensions: 16700mm×2300mm×2550mm

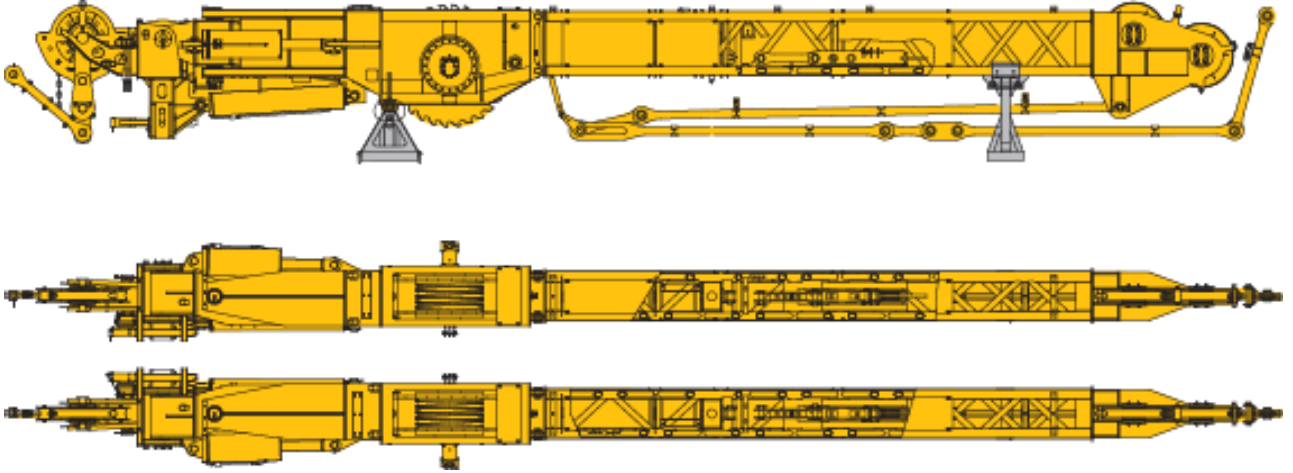


2nd- 4th boom sections; Weight: 26 t; Dimensions: 16500mm×1950mm×2450mm



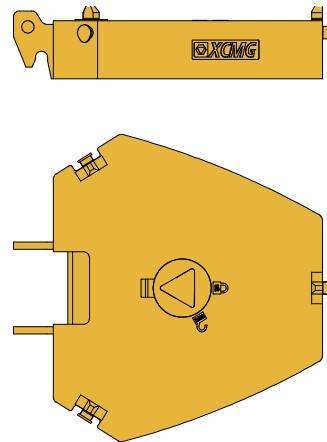
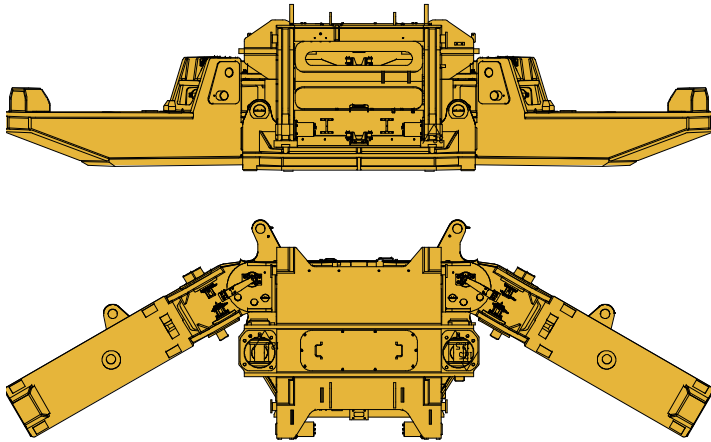
Dimensions of parts to be transported

Super lift: 21 t; Dimensions: 14200mm×1100mm×1950mm



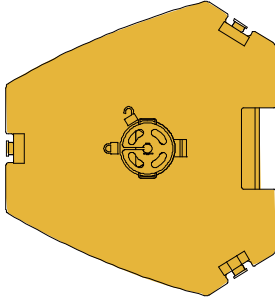
Counterweight base: 22 t 7900×2450×1800
(mm)

Transition counterweight: 18 t in total (9 t × 2)
2700×2600×620 (mm)

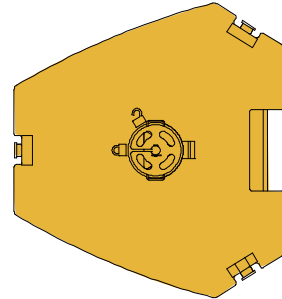


Dimensions of parts to be transported

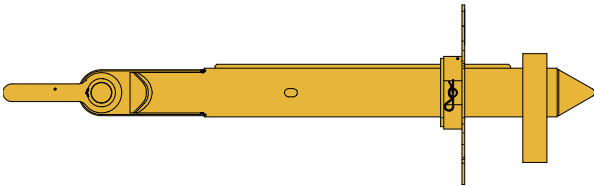
Counterweight slabs : 100 t in total (10 t × 10)
2400×2600×520 (mm)



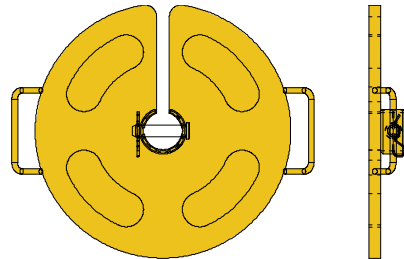
Counterweight slabs: 20 t in total (5 t × 4)
2400×2600×420 (mm)



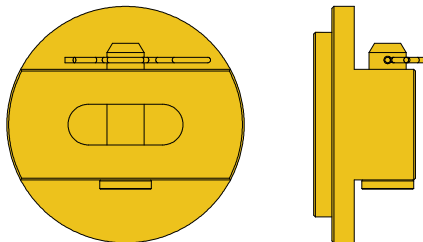
Counterweight slings: 0.07t 1480×450
(mm)



Retaining plate: 0.036t in total (0.018t × 2)
520×440×20 (mm)



Block: 0.008 t in total (0.004 t × 2)
150×150×60 (mm)

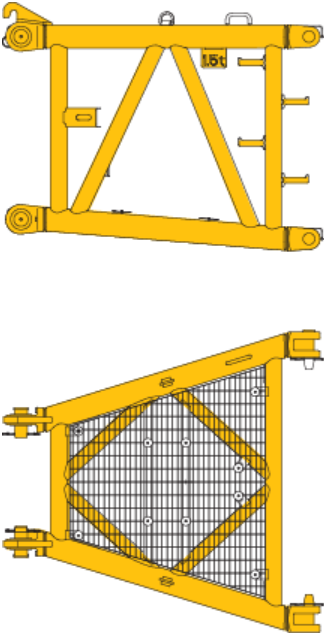


EN818-2 chain: 0.062 t in total (0.031 t × 2)
6040×16×16 (mm)

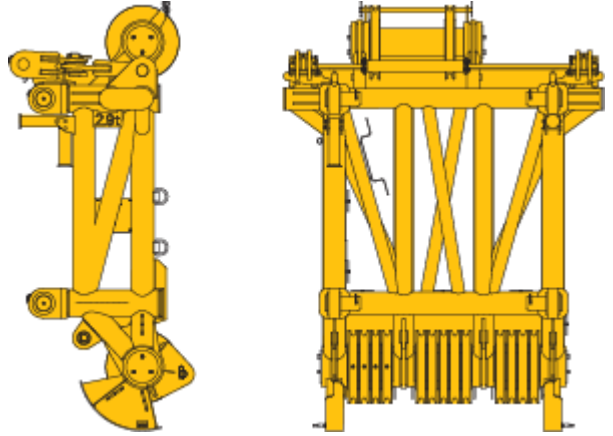


Dimensions of parts to be transported

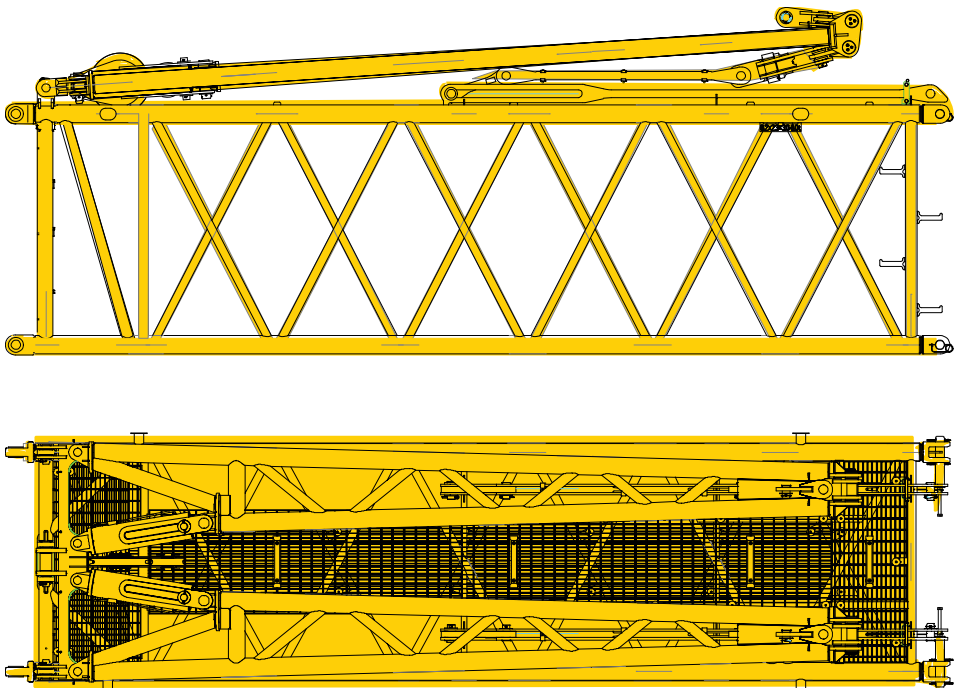
Transition sections assembly; Weight: 1.5 t;
Dimensions: 2300mm×2100mm×2300mm



Head for the 5th boom section; Weight: 2.9 t;
Dimensions: 3050mm×2280mm×1350mm

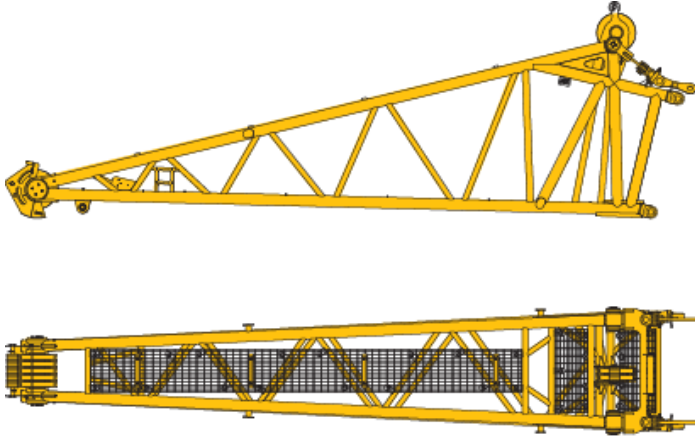


8200mm×3000mm×2300mm
Wing-type connecting bracket; Weight: 6 t;
Dimensions: 8200mm×3000mm×2300mm

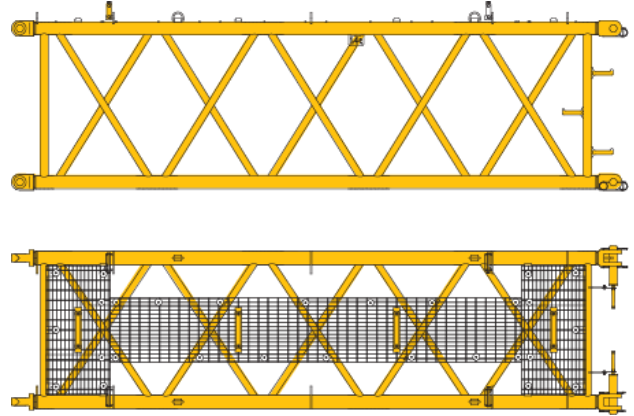


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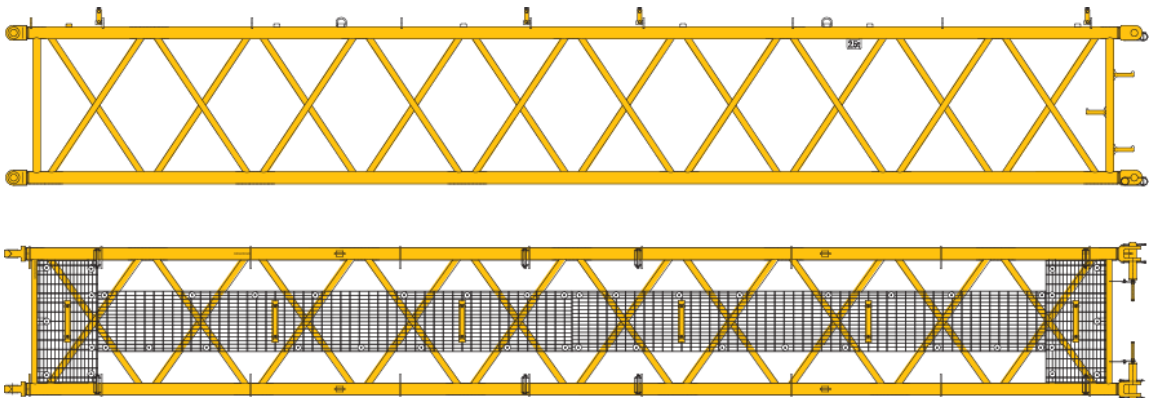
Wind power jib head;
Weight: 3.2 t
Dimensions: 9200mm×1800mm×2900mm



6200mm×2100mm×2400mm
Extension I assembly;
Weight: 1.6 t
Dimensions:
6200mm×2100mm×2400mm

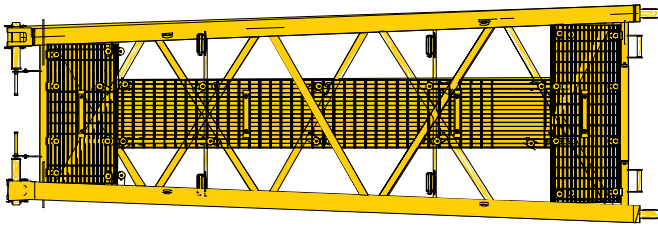
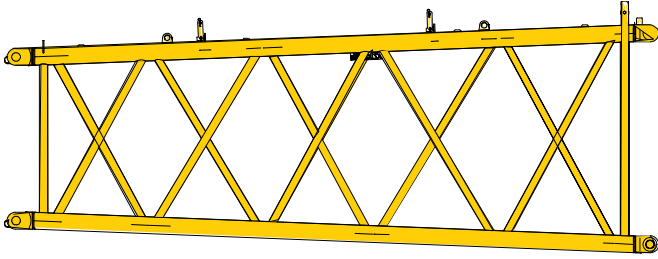


12200mm×2100mm×2400mm
Extension II assembly;
Weight: 2.6 t Dimensions: 12200mm×2100mm×2400mm

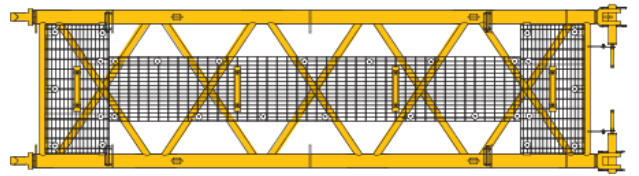
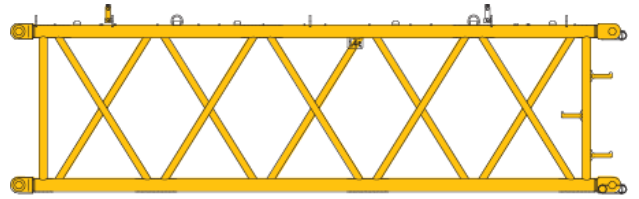


Dimensions of parts to be transported

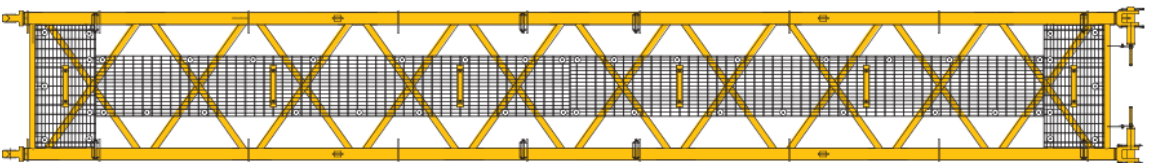
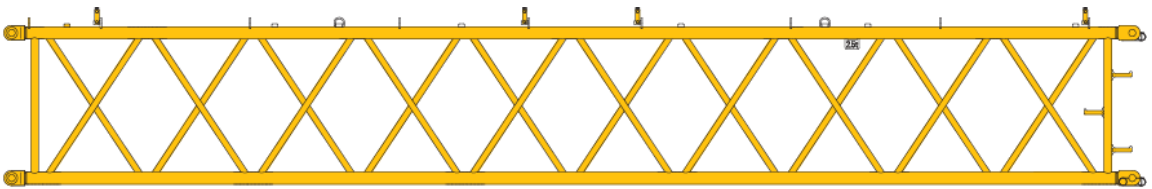
Transition sections; Weight: 1.6 t;
Dimensions: 6200mm × 2100mm × 2400mm



Extension assembly;
Weight: 1.5 t
Dimensions:
6200mm × 1700mm × 1950mm

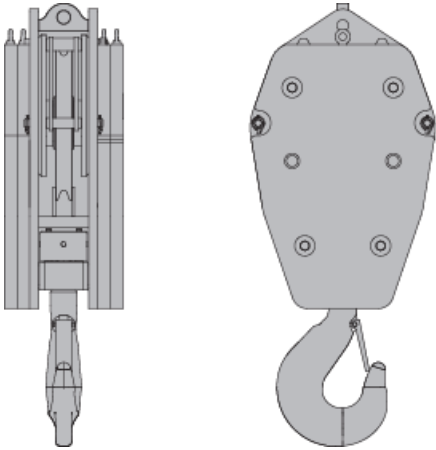


Extension assembly;
Weight: 2.7 t Dimensions:
12200mm × 1800mm × 1950mm

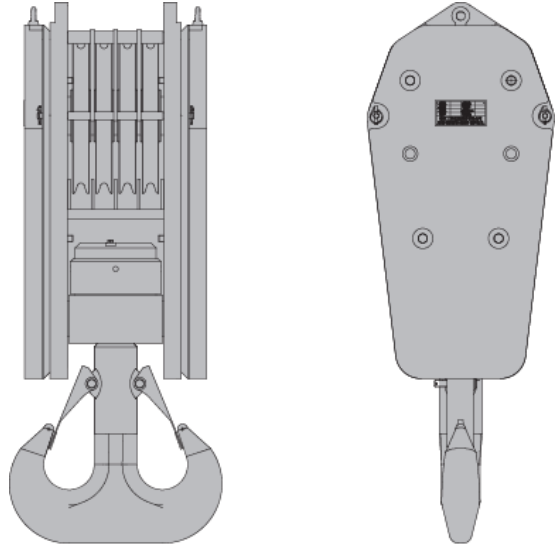


Dimensions of parts to be transported

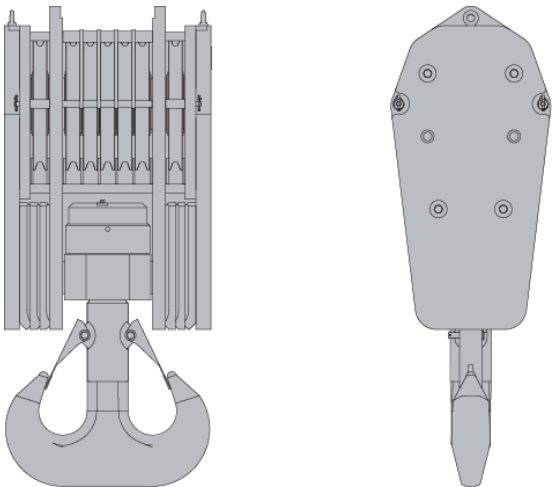
50 t hook block;
Weight: 1.5 t **Dimensions:**
1800mm×750mm×470mm



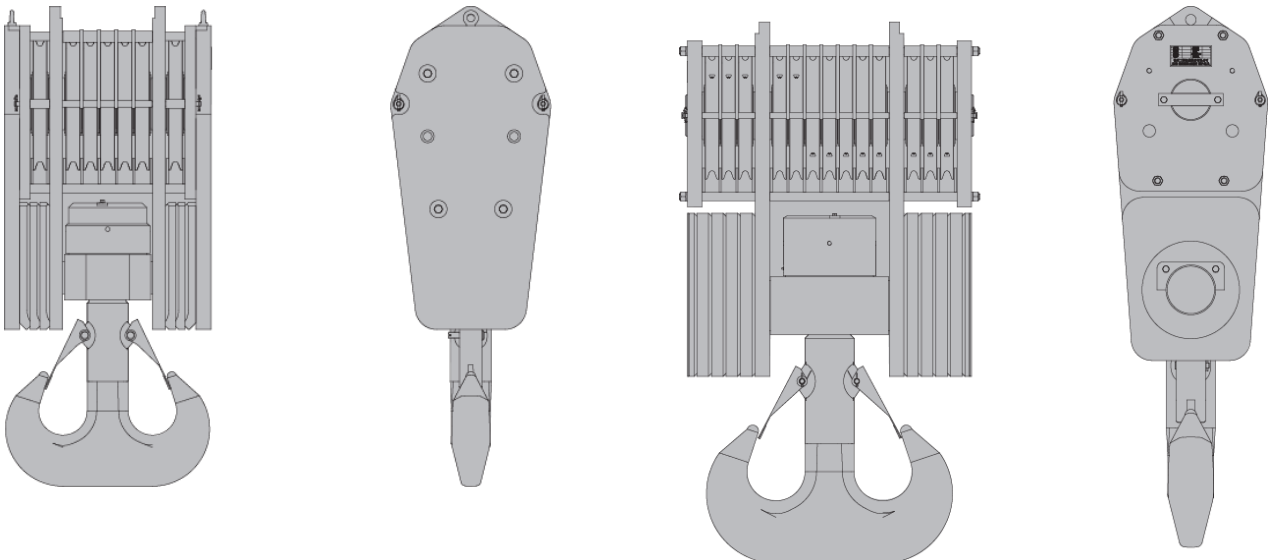
130 t hook block
Weight: 2.9 t
Dimensions:
2150mm×750mm×720mm



205 t hook block
Weight: 3.8 t
Dimensions:
2250mm×750mm×960mm

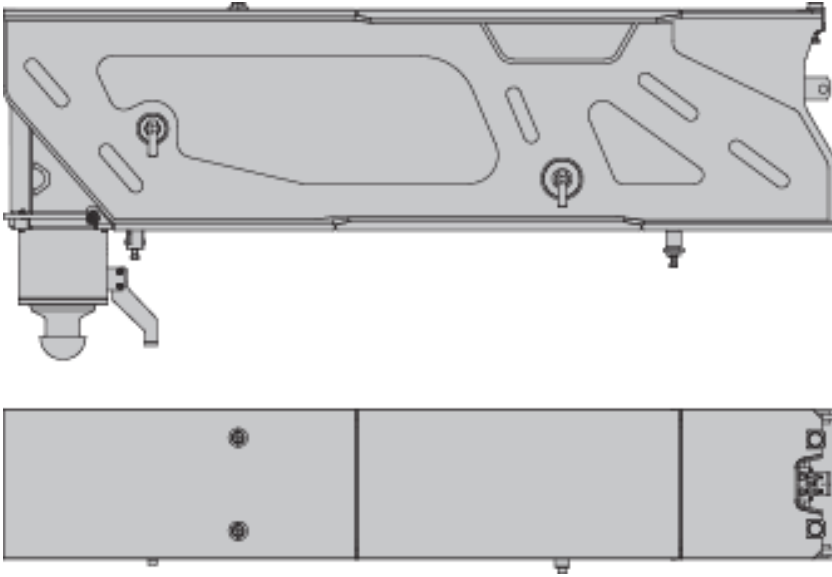


300 t hook block
Weight: 5.8 t
Dimensions:
2600mm×750mm×1450mm

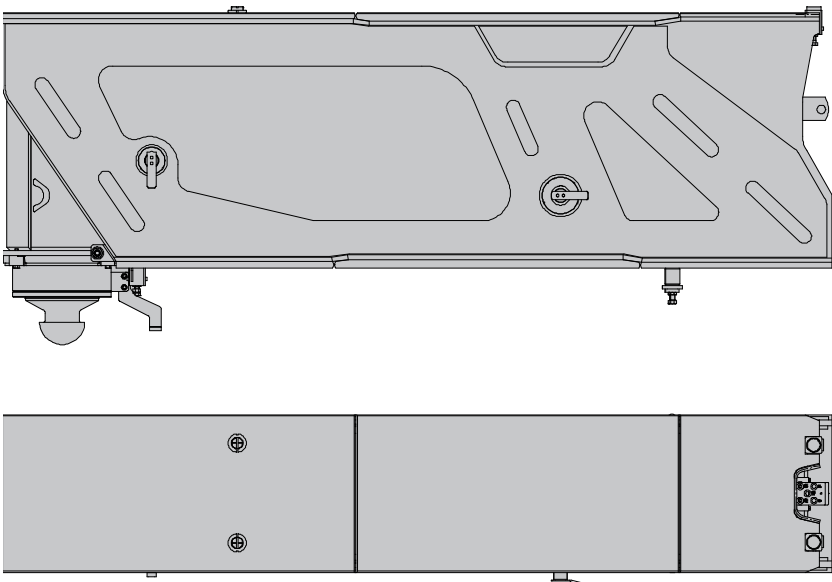


Dimensions of parts to be transported

**Front outrigger × 2; Weight: 3.1 t × 2;
Dimensions: 2940mm × 530mm × 1270mm**

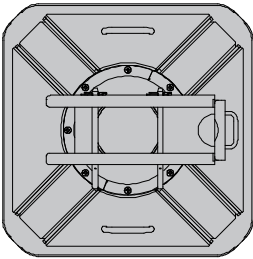
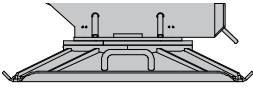


**Rear outrigger × 2; Weight: 3.6 t × 2;
Dimensions: 2940mm × 560mm × 1200mm**

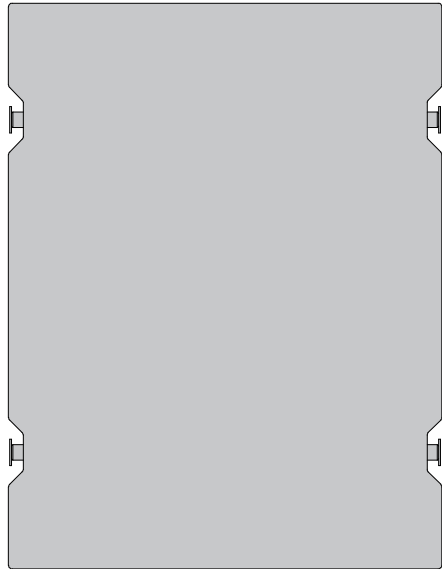


Dimensions of parts to be transported

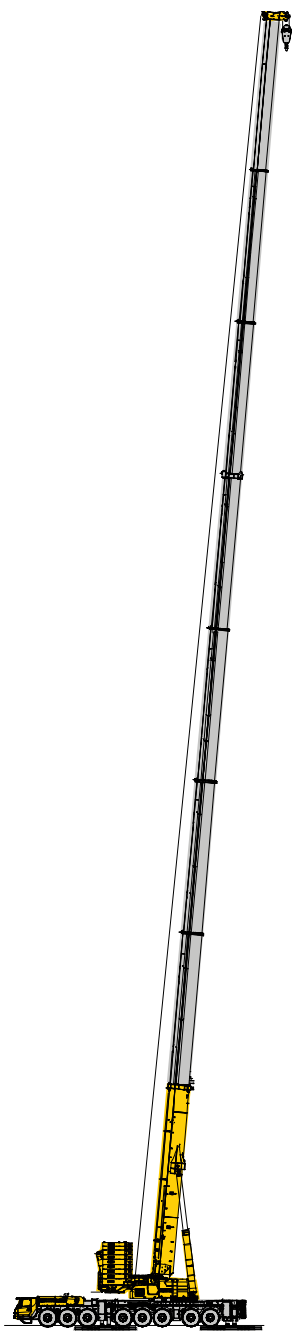
Outrigger float ×4;
Weight: 0.1 t×4;
Dimensions: 700mm×700mm×225mm



Outrigger pad×4;
Weight: 2.4 t×4;
Dimensions:
2300mm×3000mm×208mm

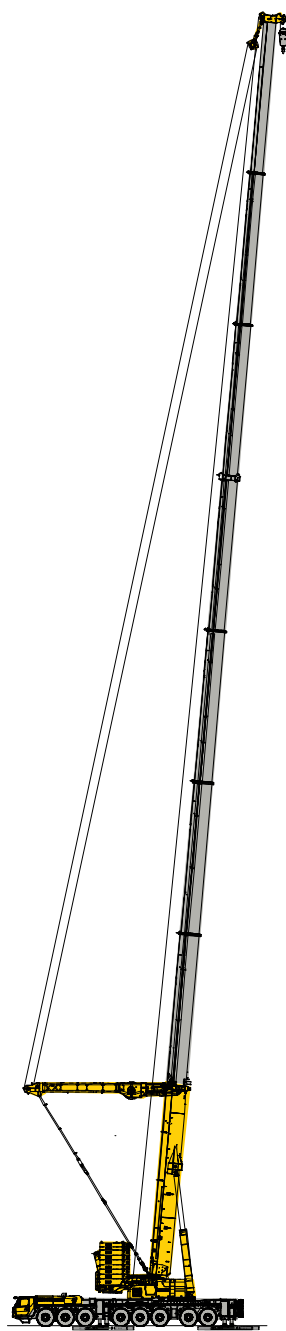


Boom / Jib combinations



Boom

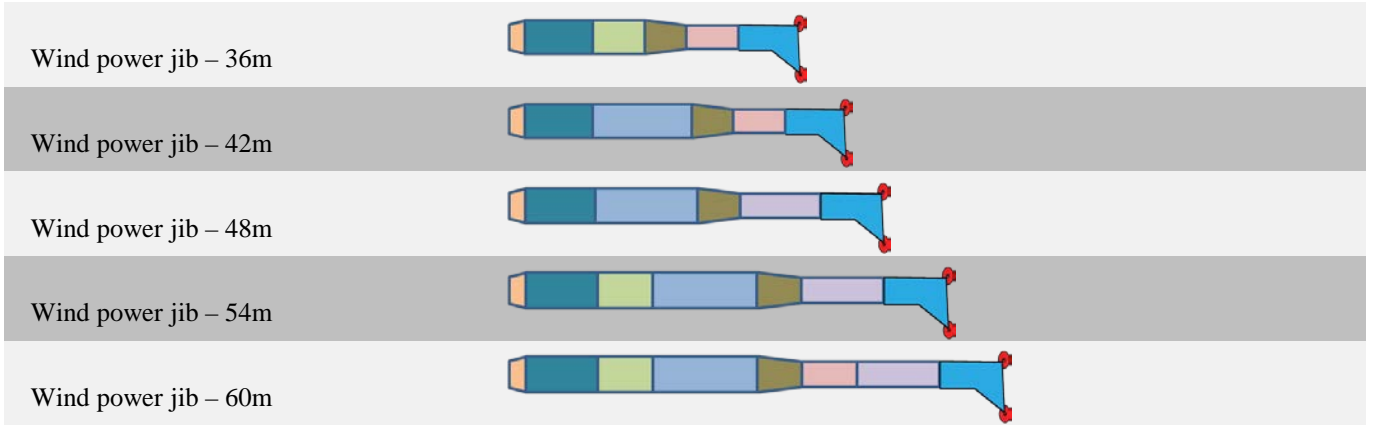
T:17.9~105m



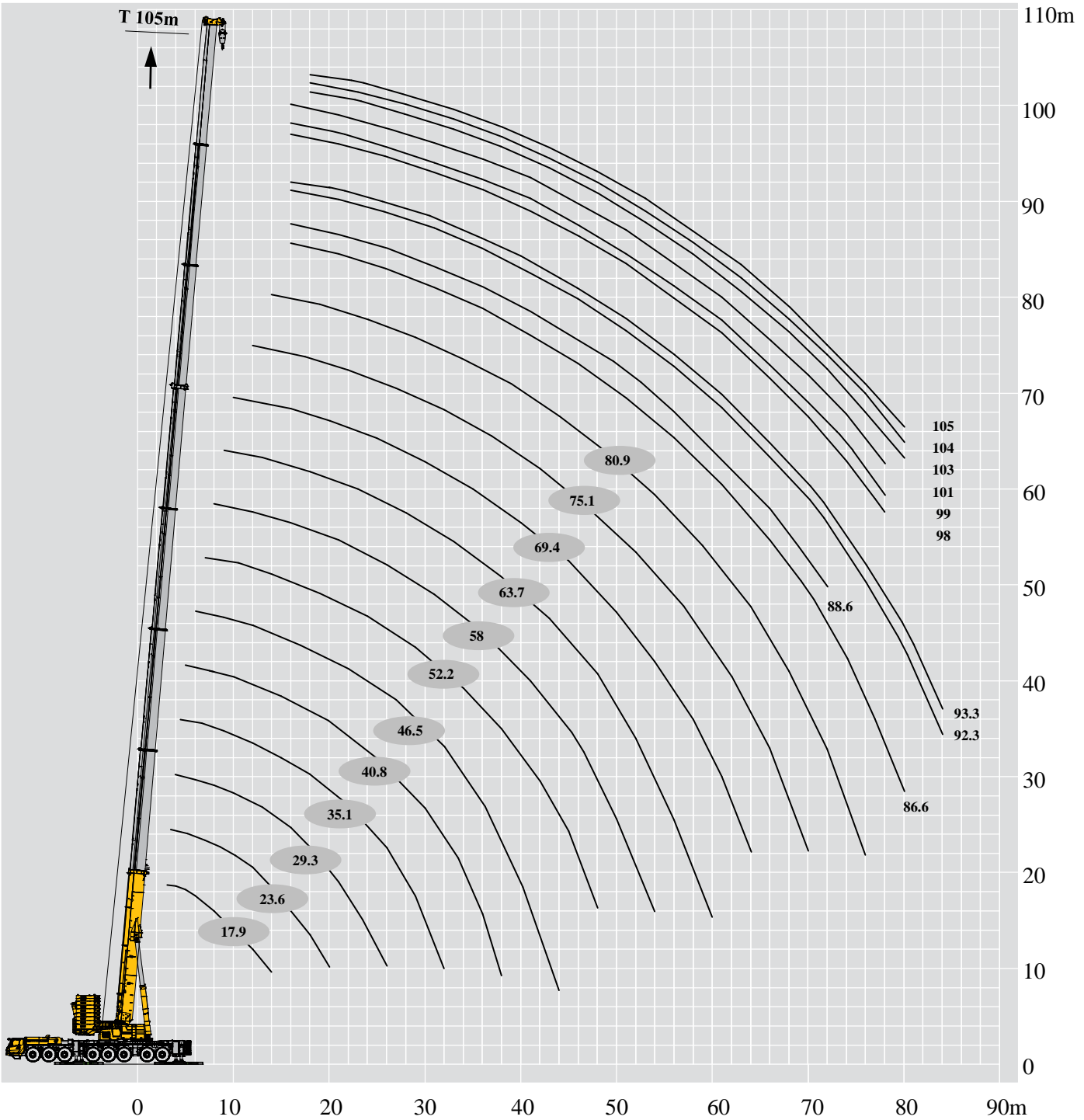
Super lift + boom

T:35.1~105 m



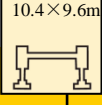
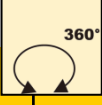
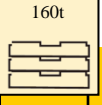

Boom / Jib combinations




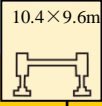

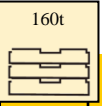
Component	Structure	Dimensions (L×W×H) mm	Weight kg
Connecting bracket assembly		2230×2100×2220	1490
Wing-type connecting bracket		8200×2240×3000	6170
6m Large extension assembly		6170×2080×2240	1530
12m Large extension assembly		12170×2080×2240	2720
Transition section assembly		6170×2060×2390	1660
6m Small extension assembly		6170×1770×1790	1590
6m Small extension assembly		12170×1770×1790	2750
Head section		9160×1730×2880	3160




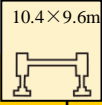

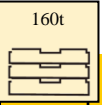
Lifting capacities with counterweight at the rear

	   															
	17.9	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	29.3	29.3	29.3	29.3	29.3		29.3
3	300.0															3
3.5	300.0	243.8	300.0	300.0	300.0	300.0	300.0	300.0								3.5
4	300.0	232.8	300.0	300.0	300.0	300.0	300.0	300.0	172.7	241.6	300.0	300.0	300.0	300.0	300.0	4
4.5	300.0	222.4	300.0	300.0	300.0	300.0	300.0	300.0	163.7	232.3	300.0	300.0	300.0	300.0	300.0	4.5
5	300.0	212.6	300.0	300.0	300.0	300.0	300.0	300.0	155.1	223.5	300.0	300.0	300.0	300.0	300.0	5
6	300.0	196.1	300.0	300.0	300.0	300.0	285.0	283.1	141.1	208.4	283.1	281.2	267.5	280.3	280.3	6
7	275.0	182.5	259.4	258.4	257.5	255.6	254.6	253.7	129.2	188.0	268.0	252.7	240.7	250.8	250.8	7
8	249.0	179.1	247.0	246.0	245.0	243.0	242.0	241.0	118.9	165.0	243.0	229.0	217.8	227.1	227.1	8
9	226.0	168.0	225.0	224.0	223.0	222.0	220.0	219.0	109.8	151.0	222.0	220.0	209.5	218.0	218.0	9
10	207.0	158.0	207.0	206.0	204.0	203.0	202.0	200.0	102.4	137.0	204.0	202.0	192.3	200.0	200.0	10
12	176.0	142.0	177.0	176.0	174.0	173.0	172.0	170.0	90.2	123.0	175.0	164.4	157.6	162.5	162.5	12
14	152.0	128.6	154.0	152.0	151.0	150.0	148.0	147.0	80.5	109.0	153.0	143.5	137.8	140.6	140.6	14
16		118.9	135.0	134.0	133.0	131.0	130.0	128.0	72.5	95.0	135.0	126.4	122.4	123.5	123.5	16
18		110.6	120.0	119.0	117.0	115.0	114.0	111.0	66.1	88.2	120.0	112.1	109.8	109.3	109.3	18
20		103.8	102.8	101.9	99.6	98.2	96.9	95.2	60.9	81.4	106.0	98.8	96.9	96.0	96.0	20
22									56.5	74.6	94.0	87.4	85.5	84.4	84.4	22
24									52.6	67.8	82.8	75.9	74.3	72.8	72.8	24
26									49.9	61.0	71.0	65.5	64.5	62.6	62.6	26
Code	0000000	0000001	0000010	0000100	0001000	0010000	0100000	1000000	0000002	0000011	0000110	0001100	0002000	0011000		Code
Parts of line	25	19	25	25	25	25	25	25	13	19	25	25	25	25		Parts of line


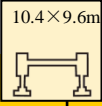

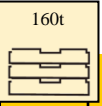
Lifting capacities with counterweight at the rear

	   														
	29.3	29.3	29.3	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	35.1	
4	300.0	300.0	300.0												4
4.5	300.0	300.0	300.0	148.3	149.6	237.6	198.3	300.0	225.4	300.0	256.2	300.0	300.0	300.0	4.5
5	300.0	300.0	300.0	140.0	141.5	229.6	187.6	300.0	213.1	300.0	240.9	300.0	282.2	300.0	5
6	278.4	276.5	275.5	126.5	127.0	215.5	168.2	276.5	191.1	274.6	215.2	272.7	252.8	270.8	6
7	249.9	248.0	246.1	114.9	116.3	203.4	152.8	262.0	172.8	247.0	195.1	245.1	229.0	243.2	7
8	226.1	223.3	222.3	105.8	105.7	188.1	140.2	238.0	157.3	224.2	177.9	222.3	207.9	219.5	8
9	216.0	214.0	213.0	98.0	97.9	172.5	128.5	218.0	144.8	205.2	163.5	202.4	190.6	200.5	9
10	198.0	196.0	195.0	90.2	90.2	159.5	118.8	201.0	134.2	188.1	151.0	186.2	176.2	183.4	10
12	160.6	158.7	156.8	79.2	79.0	139.7	104.1	172.0	116.7	161.5	130.8	158.7	153.2	155.8	12
14	138.7	136.8	134.9	70.4	69.8	124.0	92.0	150.0	102.8	140.6	114.9	137.8	133.9	134.9	14
16	121.6	119.7	117.8	63.1	62.6	111.4	82.3	133.0	91.2	123.5	101.9	120.7	118.5	117.8	16
18	106.4	103.6	101.7	56.7	56.3	93.0	74.1	118.0	81.5	109.3	91.3	106.4	104.5	102.6	18
20	93.1	90.3	88.4	51.7	50.9	86.8	67.3	105.0	73.8	96.0	82.7	93.1	91.2	89.3	20
22	81.2	77.6	75.7	47.7	46.8	80.5	61.4	93.0	67.5	85.5	74.9	81.7	79.8	78.9	22
24	69.6	66.1	64.2	44.0	43.1	74.3	56.8	83.0	62.2	75.7	68.8	71.8	69.1	67.6	24
26	59.7	56.6	54.7	41.1	40.2	68.0	52.4	73.5	57.3	66.2	63.3	62.3	59.7	58.2	26
28				38.2	37.7	64.5	49.0	65.1	53.1	58.3	55.8	54.4	51.8	50.4	28
30				35.4	35.2	61.3	45.6	58.0	49.4	51.6	49.1	47.8	45.2	43.7	30
32				33.8	33.1	53.3	42.7	49.7	45.7	44.2	42.6	41.3	38.9	37.6	32
Code	0110000	1100000	2000000	0000012	0000021	0000111	0000210	0001110	0002100	0011100	0021000	0111000	0210000	1110000	Code
Parts of line	25	25	25	11	11	19	15	25	17	25	20	25	25	25	Parts of line


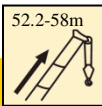
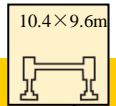

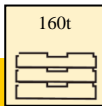

Lifting capacities with counterweight at the rear

	   														
	35.1	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	40.8	
4.5	300.0														4.5
5	300.0	118.1	145.1	145.2	150.0	151.2	215.5	169.5	262.7	184.5	300.0	227.9	300.0	241.0	5
6	268.9	108.8	131.7	131.8	138.3	140.1	201.9	157.4	243.6	171.0	267.9	209.0	265.1	220.9	6
7	241.3	99.5	121.4	120.6	126.6	128.9	188.3	145.3	224.5	157.6	241.3	190.1	238.5	200.8	7
8	217.6	91.0	111.5	111.4	114.9	117.8	174.8	133.2	205.4	144.1	218.5	171.2	216.6	180.7	8
9	198.6	83.6	102.0	101.0	103.2	106.6	161.2	121.1	186.3	130.7	200.5	152.3	197.6	160.6	9
10	181.5	77.4	92.0	90.0	91.5	95.5	147.6	109.0	167.2	117.2	194.0	133.4	191.0	140.5	10
12	153.9	70.4	84.6	82.8	83.6	87.2	135.1	98.8	152.7	106.1	166.0	120.6	163.0	126.5	12
14	133.0	63.2	77.2	75.5	75.7	78.8	122.6	88.6	138.2	94.9	144.0	107.7	141.0	112.5	14
16	115.9	56.2	69.8	68.3	67.8	70.5	110.0	78.5	123.6	83.8	127.0	94.9	124.0	98.5	16
18	100.7	49.3	62.4	61.0	59.9	62.1	97.5	68.3	109.1	72.6	112.0	82.0	108.0	84.5	18
20	87.4	42.3	55.0	53.8	52.0	53.8	85.0	58.1	94.6	61.5	99.0	69.2	94.0	70.5	20
22	76.0	40.0	54.8	50.5	48.6	50.2	79.3	54.1	87.2	56.6	87.0	63.9	83.0	64.3	22
24	64.6	38.6	51.5	47.2	45.2	46.6	73.5	50.1	79.7	51.7	78.0	58.6	73.4	58.1	24
26	55.3	36.0	48.1	43.8	41.8	42.9	67.8	46.1	72.3	46.7	68.3	53.3	63.5	51.8	26
28	47.5	33.3	45.5	40.5	38.4	39.3	62.0	42.1	64.4	41.8	60.0	48.0	55.2	45.6	28
30	40.9	31.0	38.5	37.2	35.0	35.7	56.3	38.1	57.4	36.9	53.0	42.7	48.2	39.4	30
32	35.1	29.0	36.6	36.0	33.2	34.3	53.0	35.7	51.3	34.8	47.0	40.0	42.3	36.0	32
34		26.9	34.8	34.7	31.3	33.3	49.9	33.4	46.1	32.7	41.8	37.3	37.1	32.3	34
36		25.3	32.9	32.5	29.5	31.0	45.3	31.0	41.5	30.6	37.2	32.8	32.5	27.8	36
38		23.5	31.0	29.8	27.6	28.4	37.2	28.6	33.8	28.5	29.7	26.2	25.7	21.8	38
Code	2100000	0000022	0000112	0000121	0000211	0000220	0001111	0002200	0011110	0022000	0111100	0220000	1111000	2200000	Code
Parts of line	25	9	11	11	11	11	17	13	21	14	25	18	25	19	Parts of line


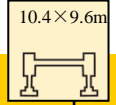

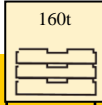
Lifting capacities with counterweight at the rear

	   														
	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	46.5	52.2	52.2	52.2	52.2	52.2	
6	108.0	123.3	134.3	130.7	135.8	208.8	243.0	260.3	191.5						6
7	101.4	112.6	125.2	120.8	125.1	194.0	230.0	234.7	175.0	92.4	102.9	112.8	113.6	119.8	7
8	93.2	103.1	115.8	110.8	114.4	179.2	217.0	212.8	158.5	85.7	96.2	104.1	104.4	114.0	8
9	86.0	95.1	107.9	100.9	103.6	164.4	208.0	194.8	142.0	79.2	89.6	95.5	95.3	110.0	9
10	78.0	85.0	97.0	90.9	92.9	149.6	192.0	189.0	125.5	73.5	83.8	88.1	86.1	105.0	10
12	70.5	74.6	85.8	81.0	82.2	134.8	165.0	162.0	109.0	63.8	74.2	76.8	77.0	94.0	12
14	64.6	70.0	80.0	74.3	75.1	124.0	144.0	140.0	98.2	56.4	66.7	67.7	67.8	85.1	14
16	57.4	62.8	74.2	67.6	68.0	113.3	127.0	124.0	87.4	50.2	60.1	60.2	62.4	77.7	16
18	52.3	56.7	68.5	60.8	61.0	102.5	113.0	109.0	76.5	45.4	55.0	54.7	57.0	71.7	18
20	47.2	50.5	62.7	54.1	53.9	91.8	99.0	95.0	65.7	41.2	50.5	49.9	51.7	66.5	20
22	43.4	44.1	56.9	47.4	46.8	81.0	88.0	84.0	54.9	39.7	49.0	44.0	46.3	64.9	22
24	40.2	41.3	53.6	44.3	43.7	75.0	79.0	75.0	50.2	36.5	45.4	39.1	40.9	55.9	24
26	37.0	38.5	50.4	41.3	40.6	70.0	71.0	66.1	45.5	33.8	42.6	36.6	38.2	53.1	26
28	34.4	35.7	47.1	38.2	37.4	67.4	62.9	57.8	40.7	31.2	39.5	34.2	35.6	50.4	28
30	31.9	32.9	43.9	35.2	34.3	60.3	55.8	50.8	36.0	29.1	36.8	31.7	32.9	47.6	30
32	29.9	30.1	40.6	32.1	31.2	54.2	49.8	44.9	31.3	27.1	34.7	29.3	30.3	44.9	32
34	28.1	29.0	39.6	30.4	29.5	49.0	44.6	39.7	30.0	25.4	32.8	26.8	27.6	42.1	34
36	26.6	27.5	38.6	28.8	27.7	44.4	40.0	35.1	27.5	24.1	30.8	25.3	26.0	40.0	36
38	24.8	26.3	37.8	27.1	26.0	40.3	36.0	31.1	25.1	22.5	29.4	23.8	24.3	39.0	38
40	23.5	24.6	36.0	25.4	24.2	36.7	32.4	27.6	21.6	21.1	27.5	22.3	22.7	37.5	40
42	22.0	22.9	34.0	23.8	22.5	33.5	29.2	24.4	18.4	19.9	26.1	20.8	21.0	35.7	42
44	20.5	20.8	27.8	22.1	20.7	24.5	20.4	16.1	11.3	19.0	24.7	19.2	19.9	32.8	44
46										17.9	23.6	17.7	18.7	30.2	46
48										16.8	22.5	16.1	17.6	27.8	48
Code	0000122	0000221	0001112	0001211	0002111	0011111	0111110	1111100	2210000	0000222	0001122	0001221	0002211	0011112	Code
Parts of line	8	9	10	10	10	16	19	21	14	7	8	8	8	9	Parts of line


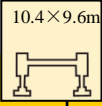

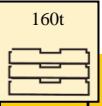
Lifting capacities with counterweight at the rear

	   														
	52.2	52.2	52.2	52.2	52.2	52.2	52.2	58	58	58	58	58	58	58	
7	123.2	119.7	207.7	142.6	231.8	163.5	165.4								7
8	113.4	110.2	196.4	130.5	210.9	148.4	150.4	87.3	94.5	96.2	111.2	116.8	114.2	118.0	8
9	103.5	100.7	182.5	118.4	192.9	133.2	135.4	81.7	88.0	90.7	104.7	109.4	107.6	107.7	9
10	93.7	91.3	169.1	106.4	177.7	118.1	120.3	76.1	81.8	85.5	98.3	102.0	101.0	97.4	10
12	83.8	81.8	147.5	94.3	160.0	102.9	105.3	66.1	71.0	76.6	85.3	88.5	94.4	87.1	12
14	74.0	72.3	131.2	82.2	140.0	87.8	90.3	58.7	63.1	69.0	72.0	75.0	87.8	76.8	14
16	68.0	66.2	124.1	75.1	123.0	80.3	81.5	52.4	56.3	62.6	60.2	61.8	81.2	66.5	16
18	62.1	60.1	109.9	68.0	103.6	72.8	72.7	47.6	49.9	57.9	55.4	56.8	74.8	61.5	18
20	56.1	53.9	98.0	60.8	91.2	65.3	64.0	43.0	45.5	53.3	50.6	51.7	69.4	56.5	20
22	50.2	47.8	89.0	53.7	85.0	57.8	55.2	39.4	41.9	49.7	45.8	46.7	64.9	51.4	22
24	44.2	41.7	80.0	46.6	76.0	50.3	46.4	36.1	38.4	46.1	41.0	41.6	61.2	46.4	24
26	41.1	38.6	72.0	43.3	68.0	46.2	42.4	33.7	35.4	43.1	36.2	36.6	57.1	41.4	26
28	38.0	35.5	65.6	40.0	60.6	42.0	38.4	31.3	32.5	40.1	33.9	34.1	53.8	38.5	28
30	34.8	32.3	58.6	36.7	53.6	37.9	34.5	29.0	30.3	37.8	31.7	31.7	51.4	35.6	30
32	31.7	29.2	52.5	33.4	47.6	33.7	30.5	28.6	30.0	37.6	29.4	29.2	51.3	32.6	32
34	28.6	26.1	47.3	30.1	42.4	29.6	26.5	25.5	27.0	35.9	27.2	26.8	49.0	29.7	34
36	26.8	24.7	42.7	28.1	37.8	27.1	25.0	23.3	23.5	34.0	24.9	24.3	44.9	26.8	36
38	25.1	23.3	38.7	26.0	33.8	24.6	24.0	22.1	22.2	32.3	23.5	22.9	40.8	25.3	38
40	23.3	21.8	35.1	24.0	30.2	22.1	22.5	20.9	20.9	30.8	22.0	21.5	37.2	23.8	40
42	21.5	20.4	31.9	21.9	27.1	19.6	19.4	19.7	19.6	29.3	20.6	20.2	34.0	22.4	42
44	20.2	19.2	29.0	20.4	24.2	17.9	16.5	18.5	18.3	27.9	19.1	18.8	31.1	20.9	44
46	19.0	18.0	26.4	18.9	21.6	16.1	14.0	17.3	17.0	27.0	17.7	17.4	28.5	19.4	46
48	17.7	16.8	24.0	17.4	19.2	14.4	11.6	16.5	16.0	25.8	16.5	16.2	26.1	18.2	48
50								15.6	15.5	25.0	15.4	15.0	23.9	17.1	50
52								14.8	15.3	23.9	14.2	13.8	22.0	15.9	52
54								13.9	14.8	23.0	13.0	12.6	20.1	14.7	54
Code	0012111	0021111	0111111	0211110	1111110	2111100	2220000	0001222	0002221	0011122	0012211	0022111	0111112	0121111	Code
Parts of line	9	9	16	11	18	12	12	6	7	7	8	9	8	9	Parts of line


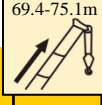
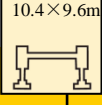
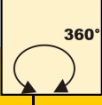
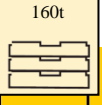

Lifting capacities with counterweight at the rear

	   														
	58	58	58	58	58	58	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	
8	122.0	199.0	157.0	165.1	157.8	151.4									8
9	112.4	184.5	145.7	154.1	147.9	140.4	76.7	84.1	89.3	99.6	93.7	92.1	110.7	117.5	9
10	102.8	170.9	135.1	143.4	138.0	129.2	71.8	80.9	84.9	92.9	88.1	87.5	103.7	111.0	10
12	93.2	149.1	117.8	123.8	118.9	109.6	63.0	73.3	73.8	80.3	76.6	78.2	89.8	98.0	12
14	83.6	131.9	97.0	98.0	98.0	85.0	55.9	65.3	64.9	70.4	67.7	70.9	79.3	86.5	14
16	74.0	116.9	85.0	77.4	78.4	60.9	49.8	58.4	58.1	62.9	59.8	65.1	69.0	76.0	16
18	67.3	103.6	80.0	71.0	71.2	56.1	44.8	53.4	52.1	56.7	53.7	60.3	58.2	57.4	18
20	60.6	92.2	75.0	64.6	64.0	51.3	41.0	48.5	47.7	50.9	48.7	55.5	53.7	53.3	20
22	53.9	81.7	68.4	58.3	56.7	46.4	37.3	44.7	43.4	46.3	44.4	51.7	49.2	49.2	22
24	47.2	73.2	62.5	51.9	49.5	41.6	34.2	41.6	39.7	42.0	40.7	48.1	44.7	45.0	24
26	40.5	65.6	56.8	45.5	42.3	36.8	31.7	37.6	35.6	36.5	35.0	45.5	40.2	40.9	26
28	37.7	63.0	52.2	42.1	40.5	34.1	29.3	33.8	31.5	31.0	29.7	42.6	35.7	36.8	28
30	35.0	56.3	48.6	38.7	38.6	31.4	27.4	31.9	29.5	28.8	27.6	40.0	34.5	34.2	30
32	32.2	50.2	46.7	35.2	36.8	28.7	26.9	30.1	27.5	26.6	25.5	39.8	33.2	31.6	32
34	29.5	45.0	41.5	31.8	34.9	26.0	25.0	28.2	25.6	24.4	23.5	37.6	32.0	29.0	34
36	26.7	40.5	37.0	28.4	33.1	23.3	23.7	26.4	23.6	22.2	21.4	36.2	30.7	26.4	36
38	25.1	36.4	33.0	26.1	29.1	21.7	20.8	24.5	21.6	20.0	19.3	34.3	29.5	23.8	38
40	23.5	32.9	29.4	23.8	25.5	20.2	19.7	23.3	20.4	19.0	18.8	33.0	26.9	22.2	40
42	21.9	29.7	26.2	21.5	21.7	18.6	18.6	22.1	19.2	17.9	18.4	31.6	24.3	20.6	42
44	20.3	26.8	23.4	19.2	17.9	17.0	17.5	21.0	17.9	16.9	17.9	29.8	21.6	19.0	44
46	18.7	24.2	20.8	16.9	14.1	15.5	16.4	19.8	16.7	15.8	17.4	29.0	19.0	17.4	46
48	17.5	21.8	18.4	16.0	13.2	13.1	15.3	18.6	15.5	14.8	17.0	27.4	16.4	15.8	48
50	16.4	19.7	16.3	15.4	12.5	11.0	14.5	18.1	14.6	13.9	15.6	25.2	15.4	15.1	50
52	15.2	17.7	14.3	13.4	10.5	9.0	13.8	17.5	13.7	12.9	14.1	23.2	14.4	14.4	52
54	14.0	15.9	12.5	11.6	8.7	7.2	13.0	17.0	12.8	12.0	12.7	21.4	13.4	13.8	54
56							12.2	16.4	11.9	11.0	11.3	19.7	12.4	13.1	56
58							11.5	15.9	11.0	10.1	9.9	18.1	11.4	12.4	58
60							10.7	15.3	10.1	9.1	8.5	16.7	10.4	11.7	60
Code	02111111	11111111	12111110	21111110	22111100	22210000	00022222	00112222	00122221	00222211	00222220	01111222	01221111	02211111	Code
Parts of line	9	15	12	12	12	11	6	6	7	7	7	7	8	9	Parts of line



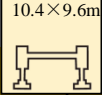

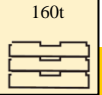

Lifting capacities with counterweight at the rear

	   														
	63.7	63.7	63.7	63.7	63.7	63.7	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	
9	112.9	131.7	143.1	135.7	132.4	123.6									9
10	108.8	124.2	134.5	128.4	124.2	116.4	74.4	80.7	81.7	86.6	88.8	100.6	96.8	87.2	10
12	99.2	109.6	117.4	113.8	105.8	100.9	66.1	71.1	75.1	78.4	80.9	90.0	86.6	79.5	12
14	90.9	97.0	103.2	99.2	91.5	87.2	58.7	62.9	69.0	70.6	72.9	79.7	75.6	72.8	14
16	83.7	82.0	86.0	79.0	73.0	77.4	52.5	56.2	63.0	63.9	65.5	71.5	68.0	66.4	16
18	77.9	65.2	68.1	60.0	56.1	68.6	47.2	50.8	57.2	58.1	58.4	63.5	60.5	61.2	18
20	72.2	60.1	62.4	54.0	53.5	60.6	43.2	45.9	52.9	53.1	53.4	57.4	54.4	57.1	20
22	67.3	54.9	56.8	48.1	50.9	54.4	39.6	41.4	49.3	48.8	48.4	51.2	49.6	53.6	22
24	63.5	49.8	51.1	42.1	48.3	49.5	36.4	38.0	45.6	45.0	44.7	46.9	45.2	50.3	24
26	60.0	44.6	45.5	36.2	45.8	40.0	34.0	35.3	42.6	41.3	40.9	42.5	41.6	47.3	26
28	56.3	39.5	39.8	30.2	43.2	33.8	31.6	32.9	39.0	38.9	32.0	37.0	37.9	44.5	28
30	53.7	37.0	37.0	28.7	38.8	31.1	29.1	30.4	35.1	35.7	25.1	32.8	34.2	42.1	30
32	52.4	34.6	34.2	27.2	34.5	28.4	28.7	29.7	33.1	35.0	24.2	30.3	33.4	42.0	32
34	47.2	32.1	31.3	25.8	30.2	25.6	27.1	27.8	31.0	33.0	23.3	27.8	30.7	39.8	34
36	42.6	29.7	28.5	24.3	25.8	22.9	25.3	25.8	29.0	30.4	22.4	25.4	28.2	37.8	36
38	38.6	27.2	25.7	22.8	21.5	20.2	23.8	23.8	26.9	28.7	21.5	22.9	26.2	36.2	38
40	35.0	25.9	23.8	20.8	20.2	19.0	20.5	18.1	24.9	23.3	20.6	20.4	24.2	34.6	40
42	31.8	24.7	21.9	18.8	18.9	17.9	19.3	17.6	23.8	22.6	20.1	19.7	22.2	33.1	42
44	28.9	23.4	20.1	16.9	17.6	16.7	18.1	17.1	22.7	21.9	19.7	19.0	20.5	30.3	44
46	26.3	22.1	18.2	14.9	16.3	15.5	16.8	16.7	21.6	21.2	19.2	18.3	19.2	27.6	46
48	23.9	20.9	16.3	12.9	15.0	14.4	15.6	16.2	20.5	20.6	18.7	17.7	17.8	25.3	48
50	21.8	18.7	15.8	12.0	12.9	12.2	14.4	15.7	19.4	19.9	18.2	17.0	16.4	23.1	50
52	19.8	16.7	15.0	11.5	10.9	10.3	13.5	14.2	18.8	19.1	17.1	15.1	15.0	21.1	52
54	18.0	14.9	14.1	11.0	9.1	8.5	12.6	12.7	18.3	17.8	15.8	13.1	13.7	19.3	54
56	16.3	13.2	12.4	9.4	7.5	6.8	11.6	11.1	17.7	17.0	15.1	11.2	12.6	17.6	56
58	14.7	11.7	10.9	7.8	5.9	5.2	10.7	9.7	17.1	16.0	14.2	9.3	11.7	16.1	58
60	13.3	10.2	9.4	6.4	4.5	3.8	10.0	9.6	16.3	15.1	12.0	9.1	10.5	14.6	60
62							9.4	9.5	15.4	14.2	10.0	8.9	9.6	13.3	62
64							8.7	9.4	14.6	13.0	7.9	7.0	8.5	12.0	64
Code	11111112	12111111	21111111	22111110	22211100	22220000	0012222	0022221	0111222	0112221	0122211	0222111	0222210	1111122	Code
Parts of line	8	10	11	10	10	9	5	6	6	6	6	7	7	6	Parts of line


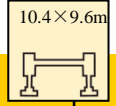

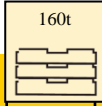
Lifting capacities with counterweight at the rear

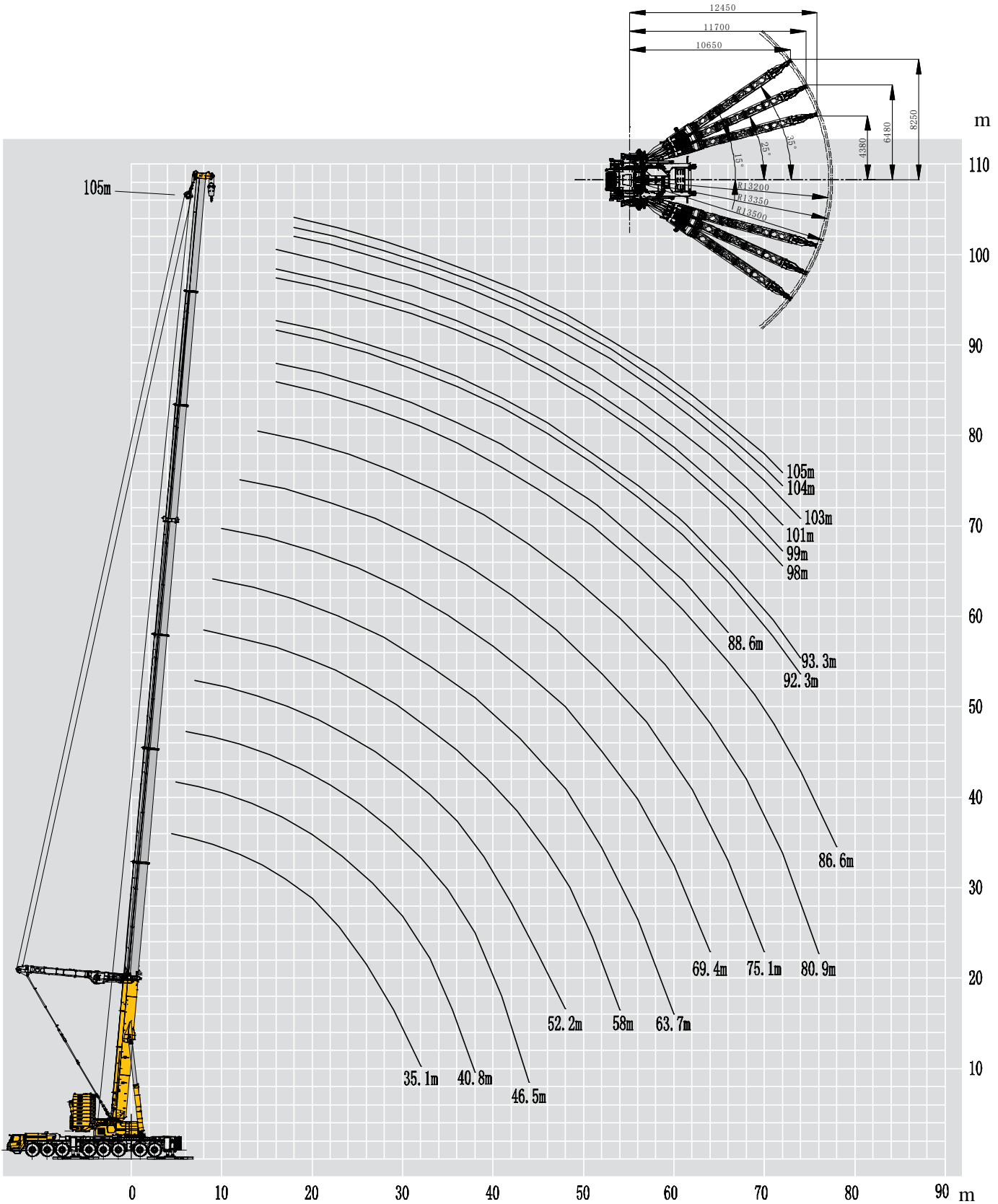
	   														
	69.4	69.4	69.4	69.4	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	
10	109.1	120.9	117.2	97.0											10
12	98.1	107.4	101.8	87.8	64.3	67.2	71.9	79.6	77.9	74.5	71.0	80.4	85.2	93.9	12
14	88.0	94.7	88.6	78.6	56.8	62.9	66.1	71.8	69.6	68.9	67.0	73.6	78.7	84.9	14
16	78.3	85.2	78.9	69.4	51.4	58.3	58.9	64.2	62.2	64.0	64.3	66.6	72.1	75.3	16
18	70.6	68.0	62.0	60.2	46.3	53.1	53.2	57.7	56.2	58.6	59.2	59.9	65.0	68.1	18
20	63.7	51.1	45.4	51.0	41.9	48.4	48.3	52.7	50.3	54.2	54.1	52.0	58.6	61.3	20
22	57.9	47.8	42.6	48.0	38.8	44.6	44.5	47.8	45.8	50.3	50.2	48.2	53.0	56.2	22
24	53.0	44.5	39.8	44.9	35.8	40.9	40.9	44.0	42.1	47.0	46.6	44.2	48.8	51.4	24
26	48.1	41.3	37.0	41.9	32.6	38.4	37.8	40.4	38.4	44.0	43.2	40.1	44.6	47.0	26
28	44.4	38.0	34.2	38.8	30.1	35.6	34.7	37.2	35.9	41.3	40.1	36.1	41.2	45.5	28
30	40.9	34.7	31.4	35.8	28.2	33.3	32.1	34.1	32.9	38.8	35.0	32.0	37.7	42.2	30
32	40.4	32.1	29.2	32.2	26.4	31.2	30.3	31.1	30.3	36.7	29.8	28.0	29.7	27.0	32
34	37.2	29.6	27.0	28.6	24.6	28.9	28.1	28.5	28.5	34.9	29.0	27.2	28.6	25.2	34
36	34.6	27.0	24.7	24.9	23.3	27.4	26.2	26.4	26.4	33.1	28.2	26.5	27.5	23.3	36
38	31.9	24.5	22.5	21.3	21.8	25.8	24.3	24.5	24.4	31.1	27.4	25.7	26.4	21.5	38
40	24.2	21.9	20.3	17.7	20.5	24.2	22.8	22.5	22.5	28.0	26.6	25.0	25.3	19.6	40
42	23.1	20.9	19.2	16.9	19.3	23.0	21.5	21.2	20.5	25.4	25.8	24.2	24.2	17.8	42
44	21.9	20.0	18.2	16.2	18.1	21.7	19.9	19.2	19.1	24.7	24.5	23.0	22.2	16.5	44
46	20.8	19.0	17.1	15.4	16.7	20.4	18.6	17.9	17.8	23.9	23.2	21.7	20.9	15.1	46
48	19.7	18.1	16.0	14.6	16.6	20.2	18.2	17.5	17.4	23.2	23.1	21.5	20.6	13.8	48
50	18.5	17.1	15.0	13.8	15.2	19.1	17.5	16.2	16.0	22.5	21.7	20.1	19.0	12.4	50
52	16.6	15.2	12.8	11.7	14.5	18.3	16.1	15.1	14.6	21.8	20.3	18.7	17.0	11.1	52
54	14.8	13.4	10.5	9.6	13.5	17.3	14.9	14.0	13.5	19.9	18.5	16.9	15.2	10.5	54
56	13.1	11.7	8.3	7.4	12.7	16.3	14.2	12.9	12.6	18.3	16.8	15.2	13.5	9.9	56
58	11.5	10.1	6.1	5.3	11.8	15.4	12.5	11.0	11.8	16.7	15.3	13.7	12.0	9.3	58
60	10.1	8.7	5.5	4.8	11.1	13.2	10.7	9.6	10.5	15.3	13.8	12.2	10.5	8.7	60
62	8.8	7.0	4.8	4.0	10.3	11.5	8.7	7.6	9.7	13.9	12.5	10.9	9.2	8.1	62
64	7.5	5.3	4.0	2.9	9.6	11.4	8.5	6.9	9.0	12.6	11.2	9.7	7.9	6.8	64
66					8.8	11.3	8.4	6.2	8.2	11.5	10.1	8.5	6.8	5.7	66
68					8.2	11.2	8.2	5.4	7.4	10.4	9.0	7.4	5.7	4.6	68
70					7.8	11.0	8.0	4.7	6.6	9.3	7.9	6.3	4.6	3.5	70
Code	12211111	22111111	22211110	22221000	00222222	01122222	01222221	02222211	02222220	11112222	11122221	11222211	12221111	22112220	Code
Parts of line	8	9	9	7	5	5	5	6	6	5	5	6	6	7	Parts of line

Lifting capacities with counterweight at the rear

	   															
	75.1	75.1	75.1	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	86.6	86.6	86.6		
12	91.2	89.2	86.5												12	
14	85.0	80.3	77.4	59.8	63.6	62.5	63.7	66.5	67.4	75.6	72.8				14	
16	76.1	70.6	68.7	54.1	58.0	58.3	59.0	62.2	63.4	68.7	66.1	51.9	52.1	54.6	16	
18	69.0	63.5	61.1	48.7	53.1	53.8	54.2	57.9	57.0	61.9	58.5	48.5	49.2	51.4	18	
20	60.0	56.7	55.0	44.8	47.9	49.8	49.5	53.1	51.5	58.8	53.2	44.8	46.2	48.1	20	
22	52.6	51.6	49.6	38.0	43.8	46.2	44.7	48.6	47.5	53.3	48.5	40.9	43.3	44.9	22	
24	49.3	46.7	44.6	32.0	40.4	42.5	40.0	45.1	43.5	48.5	43.8	37.5	40.3	41.4	24	
26	46.0	42.9	40.8	30.9	37.4	39.7	36.9	40.9	39.9	44.8	40.3	34.9	37.4	38.5	26	
28	42.7	39.3	37.2	29.8	34.4	37.8	33.8	38.0	36.9	41.1	36.7	32.5	34.7	35.4	28	
30	39.3	35.5	32.5	28.7	32.0	35.7	30.6	35.0	34.0	37.9	33.8	30.0	32.0	32.6	30	
32	36.1	34.7	28.0	27.6	29.7	33.9	27.5	32.6	31.6	34.8	31.3	27.5	29.3	30.7	32	
34	32.5	32.2	26.5	26.5	27.9	31.8	24.4	30.4	29.3	32.2	24.5	25.1	26.6	28.5	34	
36	28.9	29.6	25.5	24.3	25.8	29.8	23.7	27.7	26.7	29.2	23.6	22.6	23.9	26.6	36	
38	25.2	25.5	24.8	22.1	23.8	28.5	23.0	25.1	24.0	26.1	22.6	21.7	23.2	24.0	38	
40	21.6	24.4	22.9	19.9	22.5	26.9	22.4	22.5	21.4	23.1	21.7	20.8	22.4	21.5	40	
42	18.0	22.5	21.1	17.7	18.5	25.6	21.7	19.9	18.7	20.0	20.8	19.8	21.7	18.9	42	
44	17.4	20.7	19.2	15.5	15.0	24.2	21.0	17.3	16.1	17.0	19.9	18.9	21.0	16.4	44	
46	16.9	19.2	18.0	15.3	14.8	22.8	19.9	16.9	15.9	15.6	18.3	18.0	20.3	13.8	46	
48	16.3	17.8	17.4	15.2	14.6	21.7	18.7	16.6	15.7	14.2	17.0	17.0	19.1	13.6	48	
50	15.7	13.5	13.0	15.0	14.5	20.8	17.6	16.2	15.5	12.8	16.6	16.0	18.1	13.3	50	
52	15.2	9.5	9.0	14.8	14.3	19.7	16.4	15.9	15.3	11.4	14.9	15.0	16.9	13.1	52	
54	13.3	8.8	8.8	14.7	9.4	18.6	15.3	15.5	15.2	10.0	13.0	14.0	16.1	12.8	54	
56	11.5	8.1	8.6	14.0	8.8	17.7	14.4	14.4	14.0	9.3	11.4	13.1	14.8	12.6	56	
58	9.6	7.4	8.2	13.0	8.2	16.7	13.5	12.9	12.5	8.6	9.8	11.8	13.7	11.8	58	
60	7.8	6.7	6.8	12.2	7.7	15.3	12.6	11.4	11.1	8.0	8.4	10.6	12.6	11.1	60	
62	5.9	5.9	5.5	11.5	7.1	13.9	11.7	10.1	9.7	7.3	7.1	9.3	11.5	10.3	62	
64	5.4	4.7	4.2	10.8	6.5	12.7	10.8	8.8	8.5	6.6	4.7	8.1	10.4	9.6	64	
66	4.9	3.0	3.1	10.1	6.0	11.5	9.7	7.7	7.3	5.4	4.7	6.8	9.3	8.8	66	
68	3.8			9.5	5.5	10.4	8.6	6.6	6.2	4.3	3.6	6.6	8.7	7.7	68	
70	2.8			8.9	5.0	9.3	7.5	5.5	5.2	3.3	1.5	6.3	8.2	6.7	70	
72				8.4	4.4	8.4	6.6	4.6	4.2			6.1	7.6	5.7	72	
74				7.9	3.9	7.5	5.6	3.6	3.3			5.8	7.0	4.8	74	
76				7.5	3.4	6.6	4.8	2.8				5.4	6.1	3.9	76	
78												5.1	5.3	3.1	78	
80												4.8	4.5		80	
Code	2221111	2222110	2222200	0122222	0222221	1112222	1122221	1222211	1222220	2222111	2222210	0222222	1122222	1222221	Code	
Parts of line	7	7	6	4	5	5	5	5	5	6	5	4	4	4	Parts of line	

Lifting capacities with counterweight at the rear

	   														
	86.6	86.6	88.6	92.3	92.3	93.3	93.3	98	99	101	103	103	104	105	
16	62.1	61.6	59.6	50.0	55.4	53.8	52.4	46.7	43.6	38.5					16
18	56.5	55.5	53.5	47.2	52.0	49.8	47.9	43.9	42.0	36.7	36.5	36.0	35.5	35.0	18
20	51.0	50.7	48.7	44.4	48.2	45.2	43.4	41.1	40.3	35.0	34.5	34.0	33.4	32.7	20
22	45.4	45.9	44.1	41.7	44.0	41.5	39.0	38.3	38.7	33.2	32.5	32.0	31.3	30.4	22
24	39.9	42.1	40.1	38.9	40.3	38.3	34.5	35.5	37.1	31.5	30.5	30.0	29.2	28.1	24
26	34.3	38.4	36.6	36.1	36.2	35.8	30.0	32.7	35.4	29.7	28.5	28.0	27.1	25.8	26
28	32.9	35.0	33.9	33.6	34.1	33.5	28.6	30.7	32.6	27.4	26.5	26.0	25.0	23.5	28
30	31.5	32.4	31.4	31.2	31.6	31.1	27.2	28.7	30.3	25.1	25.1	24.6	23.8	22.4	30
32	30.0	29.8	30.2	29.0	29.2	28.5	25.8	26.6	27.7	22.8	23.7	23.2	22.6	21.4	32
34	28.6	26.9	28.1	27.2	27.4	26.8	24.4	24.6	25.8	20.5	22.3	21.8	21.4	20.3	34
36	27.2	24.0	25.7	25.3	21.6	26.4	23.0	22.6	23.0	20.0	20.9	20.4	20.2	19.3	36
38	25.2	23.0	23.8	23.6	20.1	25.0	22.0	21.5	21.5	19.8	19.5	19.0	19.0	18.2	38
40	23.1	22.1	21.9	21.9	18.6	23.7	21.0	20.4	20.0	18.7	19.4	17.9	17.9	17.2	40
42	21.1	21.1	20.0	20.1	17.0	22.4	20.0	19.4	18.5	17.5	19.2	16.8	16.8	16.1	42
44	19.0	20.1	18.1	18.4	15.5	21.1	19.0	18.3	17.0	16.3	17.9	15.8	15.7	15.1	44
46	17.0	19.1	16.2	16.7	14.0	19.7	18.0	17.2	15.5	15.2	16.8	14.7	14.6	14.0	46
48	15.2	17.8	15.1	15.5	13.6	18.5	17.1	16.6	15.0	14.0	13.8	13.6	13.5	13.0	48
50	13.5	16.5	14.0	14.4	13.2	17.7	16.1	16.0	14.5	13.1	12.8	12.6	12.4	11.9	50
52	11.7	15.5	12.9	13.2	12.8	16.2	15.2	15.3	14.0	12.2	11.9	11.6	11.3	10.8	52
54	10.0	14.2	11.8	12.1	12.4	15.2	14.2	14.7	13.5	11.3	10.9	10.6	10.2	9.7	54
56	8.2	12.8	10.7	10.9	12.0	8.5	13.3	14.1	13.0	10.4	10.0	9.6	9.1	8.6	56
58	7.5	11.2	9.7	10.7	10.5	8.3	12.0	12.6	12.0	9.5	9.0	8.6	8.0	7.5	58
60	6.8	9.8	8.6	10.6	9.1	8.0	11.1	11.1	11.0	9.2	8.8	8.4	7.9	7.2	60
62	6.0	8.4	7.6	10.4	7.6	7.8	9.7	9.5	9.9	9.0	8.7	8.2	7.8	6.9	62
64	5.3	7.2	6.5	10.3	6.2	7.5	8.5	8.0	8.9	8.7	8.5	8.0	7.6	6.6	64
66	4.6	3.8	5.5	10.1	4.7	7.3	7.3	6.5	7.9	8.5	8.4	7.7	7.5	6.3	66
68	3.9	3.4	4.6	9.0	4.1	6.9	6.2	5.6	7.2	7.4	8.2	7.5	7.4	6.0	68
70	3.2	2.9	3.6	8.0	3.5	6.6	5.2	4.8	6.5	6.4	6.9	6.5	6.7	5.5	70
72	2.4	2.5	2.6	7.0	3.0	6.2	4.2	3.9	5.5	5.4	5.6	5.5	5.7	5.0	72
74				6.1	2.4	5.8	3.3	3.0	4.6	4.5	4.3	4.6	4.8	4.5	74
76				5.3	1.8	5.5		2.8	3.8	3.5	3.0	2.5	3.9	4.1	76
78				4.4		4.7		2.6	3.0	2.4	2.8	2.2	3.1	3.3	78
80				3.7		3.9					2.6			2.5	80
82				2.9		3.1									82
Code	2222211	2222220	3322220	1222222	2222221	1222223	3222221	2222222	3222222	3332222	2233333	3333322	3333332	3333333	Code
Parts of line	5	5	4	4	4	4	4	4	3	3	3	3	3	3	Parts of line



Lifting capacities with counterweight at the rear and 35° deployed angle



	35.1			35.1			40.8			40.8			40.8			
4.5	300.0	300.0	300.0	300.0	300.0	300.0										4.5
5	297.0	296.0	296.0	294.0	294.0	291.0	290.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	5
6	294.0	293.0	293.0	292.0	291.0	289.0	289.0	288.0	288.0	288.0	287.0	287.0	286.0	284.0	284.0	6
7	264.0	264.0	263.0	262.0	261.0	260.0	259.0	260.0	259.0	259.0	259.0	259.0	258.0	258.0	256.0	7
8	239.0	239.0	238.0	237.0	236.0	235.0	234.0	236.0	236.0	235.0	235.0	234.0	234.0	232.0	232.0	8
9	219.0	218.0	217.0	216.0	215.0	214.0	213.0	216.0	216.0	215.0	215.0	214.0	214.0	212.0	212.0	9
10	201.0	200.0	200.0	198.0	198.0	196.0	195.0	199.0	198.0	198.0	197.0	197.0	197.0	194.0	194.0	10
12	172.0	171.0	171.0	169.0	168.0	167.0	166.0	171.0	170.0	170.0	169.0	169.0	168.0	166.0	166.0	12
14	149.0	149.0	148.0	147.0	146.0	144.0	143.0	149.0	148.0	148.0	147.0	147.0	146.0	144.0	144.0	14
16	131.0	131.0	130.0	129.0	128.0	126.0	125.0	131.0	131.0	130.0	130.0	129.0	129.0	126.0	126.0	16
18	117.0	116.0	115.0	114.0	113.0	111.0	110.0	117.0	116.0	116.0	115.0	115.0	114.0	112.0	112.0	18
20	104.0	104.0	103.0	101.0	100.0	99.0	98.0	105.0	104.0	104.0	103.0	103.0	102.0	100.0	100.0	20
22	93.0	92.0	91.0	90.0	89.0	86.0	85.0	94.0	94.0	93.0	92.0	91.0	91.0	88.0	88.0	22
24	83.0	82.0	81.0	79.0	78.0	76.0	75.0	84.0	84.0	83.0	82.0	81.0	81.0	78.0	78.0	24
26	74.0	73.0	72.9	70.8	69.5	67.0	65.7	76.0	75.0	74.0	74.0	73.0	73.0	69.0	69.0	26
28	65.7	64.8	63.8	61.8	60.4	58.0	56.7	69.0	68.0	67.0	66.0	65.8	65.0	61.7	61.7	28
30	58.0	57.1	56.0	54.0	52.7	50.3	49.0	61.5	60.6	59.9	58.9	58.2	57.8	54.1	54.1	30
32	45.0	44.0	43.9	42.1	41.0	39.0	38.0	54.9	54.0	53.3	52.4	51.6	51.3	47.5	47.5	32
34								49.2	48.3	47.5	46.6	45.9	45.5	41.8	41.8	34
36								44.1	43.2	42.5	41.5	40.8	40.4	36.7	36.7	36
38								31.8	31.7	30.8	29.8	28.8	28.7	25.7	25.7	38
Code	00000	00000	00001	00002	00011	00021	00111	00000	00001	00001	00002	00002	00011	00022		
	12	21	11	10	10	00	00	22	12	21	11	20	11	00	Code	
Parts of line	25	25	25	25	25	25	25	25	25	25	25	25	25	25	Parts of line	

Lifting capacities with counterweight at the rear and 35° deployed angle



	40.8	40.8	46.5	46.5	46.5	46.5	46.5	46.5	46.5	52.2	52.2	52.2	52.2	52.2	
5	300.0	300.0													5
6	284.0	282.0	283.0	282.0	281.0	280.0	280.0	278.0	275.0						6
7	256.0	253.0	255.0	254.0	253.0	253.0	252.0	250.0	247.0	250.0	250.0	249.0	248.0	249.0	7
8	232.0	229.0	232.0	231.0	230.0	230.0	229.0	227.0	224.0	228.0	228.0	227.0	226.0	226.0	8
9	211.0	209.0	213.0	212.0	211.0	210.0	210.0	207.0	204.0	209.0	209.0	208.0	207.0	207.0	9
10	194.0	191.0	196.0	195.0	194.0	193.0	193.0	190.0	187.0	193.0	193.0	192.0	191.0	191.0	10
12	166.0	163.0	169.0	168.0	167.0	166.0	165.0	162.0	159.0	166.0	166.0	165.0	164.0	164.0	12
14	144.0	141.0	147.0	146.0	145.0	145.0	144.0	141.0	138.0	146.0	145.0	144.0	143.0	143.0	14
16	126.0	123.0	130.0	129.0	128.0	127.0	127.0	124.0	120.0	129.0	128.0	127.0	126.0	127.0	16
18	112.0	108.0	116.0	115.0	114.0	113.0	113.0	109.0	106.0	115.0	115.0	114.0	113.0	113.0	18
20	99.0	96.0	104.0	103.0	102.0	101.0	101.0	98.0	93.0	104.0	103.0	102.0	101.0	101.0	20
22	88.0	84.0	94.0	93.0	91.0	91.0	90.0	86.0	82.0	94.0	93.0	92.0	90.0	91.0	22
24	78.0	74.0	84.0	83.0	82.0	81.0	80.0	76.0	72.0	84.0	83.0	82.0	81.0	81.0	24
26	69.0	66.0	76.0	75.0	73.0	72.0	72.0	68.0	64.0	76.0	75.0	74.0	73.0	73.0	26
28	61.5	57.1	69.0	68.0	66.0	65.0	65.0	61.0	56.0	69.0	68.0	67.0	66.0	66.0	28
30	53.9	49.6	63.0	61.0	60.0	59.0	58.0	53.6	48.6	63.0	62.0	61.0	60.0	60.0	30
32	47.4	43.1	56.7	55.2	53.4	52.4	51.5	47.1	42.2	57.0	57.0	55.7	54.0	54.6	32
34	41.7	37.4	51.0	49.5	47.7	46.8	45.8	41.5	36.6	52.2	51.3	50.1	48.5	48.9	34
36	36.6	32.3	46.0	44.5	42.8	41.8	40.9	36.5	31.6	47.2	46.4	45.1	43.5	44.0	36
38	25.7	21.7	41.5	40.1	38.4	37.4	36.5	32.1	27.3	42.8	42.0	40.7	39.1	39.6	38
40			37.6	36.1	34.4	33.4	32.5	28.2	23.4	38.9	38.1	36.8	35.2	35.7	40
42			34.0	32.5	30.8	29.8	28.9	24.6	19.8	35.4	34.6	33.3	31.7	32.2	42
44			21.6	20.2	19.2	18.2	17.1	13.1	9.2	32.2	31.4	30.1	28.6	29.0	44
46										29.3	28.5	27.2	25.7	26.2	46
48										26.6	25.8	24.6	23.0	23.5	48
Code	0011110	0111100	0000122	0000221	0001211	0002111	0011111	0111110	1111100	0000222	0001122	0001221	0002211	0011112	Code
Parts of line	25	25	23	23	23	23	23	22	22	20	20	20	19	20	Parts of line

Lifting capacities with counterweight at the rear and 35° deployed angle



	52.2	52.2	52.2	52.2	52.2	52.2	58	58	58	58	58	58	58	58	
7	247.0	247.0	247.0	234.0	244.0	241.0									7
8	225.0	225.0	224.0	222.0	221.0	219.0	210.0	210.0	210.0	221.0	221.0	221.0	220.0	219.0	8
9	206.0	206.0	205.0	203.0	202.0	199.0	205.0	204.0	205.0	203.0	202.0	203.0	201.0	201.0	9
10	190.0	189.0	189.0	186.0	186.0	183.0	190.0	188.0	189.0	187.0	186.0	187.0	185.0	185.0	10
12	163.0	162.0	162.0	159.0	159.0	156.0	164.0	162.0	163.0	161.0	160.0	161.0	159.0	159.0	12
14	142.0	141.0	141.0	138.0	138.0	135.0	143.0	142.0	142.0	141.0	140.0	140.0	139.0	138.0	14
16	125.0	125.0	124.0	121.0	121.0	118.0	127.0	126.0	126.0	124.0	123.0	124.0	122.0	122.0	16
18	111.0	111.0	110.0	107.0	107.0	104.0	114.0	112.0	112.0	111.0	110.0	110.0	109.0	108.0	18
20	100.0	99.0	99.0	96.0	95.0	91.0	102.0	101.0	101.0	99.0	98.0	99.0	97.0	97.0	20
22	89.0	88.0	88.0	84.0	83.0	80.0	92.0	91.0	91.0	89.0	88.0	89.0	86.0	86.0	22
24	79.0	79.0	78.0	75.0	74.0	70.0	83.0	81.0	82.0	79.0	78.0	79.0	77.0	76.0	24
26	71.0	71.0	70.0	67.0	66.0	62.0	75.0	73.0	74.0	72.0	70.0	71.0	69.0	68.0	26
28	64.0	64.0	63.0	60.0	59.0	55.0	68.0	66.0	67.0	65.0	63.0	64.0	62.0	61.0	28
30	58.0	58.0	57.0	53.0	52.2	47.7	62.0	60.0	61.0	59.0	57.0	58.0	56.0	55.0	30
32	52.4	51.6	50.7	46.7	45.7	41.3	57.0	55.0	56.0	53.0	52.0	53.0	50.8	49.9	32
34	46.8	46.0	45.1	41.1	40.1	35.8	52.0	50.4	50.8	48.3	46.7	47.9	45.2	44.3	34
36	41.8	41.0	40.1	36.2	35.2	30.9	47.4	45.5	45.9	43.3	41.8	42.9	40.3	39.4	36
38	37.5	36.7	35.8	31.9	30.9	26.6	43.0	41.1	41.5	39.0	37.5	38.6	35.9	35.1	38
40	33.6	32.8	31.9	28.0	27.0	22.8	39.1	37.2	37.6	35.1	33.6	34.7	32.1	31.2	40
42	30.1	29.3	28.4	24.6	23.6	19.3	35.6	33.7	34.1	31.6	30.1	31.2	28.6	27.8	42
44	26.9	26.1	25.2	21.4	20.4	16.2	32.5	30.6	31.0	28.5	27.0	28.1	25.5	24.7	44
46	24.0	23.2	22.4	18.5	17.6	13.3	29.6	27.7	28.2	25.7	24.2	25.3	22.7	21.8	46
48	21.4	20.6	19.7	15.9	14.9	10.7	27.0	25.1	25.6	23.1	21.6	22.7	20.1	19.3	48
50							24.6	22.8	23.2	20.7	19.2	20.3	17.7	16.9	50
52							22.4	20.5	21.0	18.5	17.0	18.1	15.5	14.7	52
54							20.3	18.5	18.6	16.3	14.9	16.0	13.4	12.6	54
Code	0012111	0021111	0111111	0211110	1111110	2111100	0001222	0002221	0011122	0012211	0022111	0111112	0121111	0211111	Code
Parts of line	19	19	19	18	19	19	16	16	16	17	17	17	17	17	Parts of line

Lifting capacities with counterweight at the rear and 35° deployed angle



	58				63.7											
8	219.0	217.0	216.0	215.0												8
9	200.0	198.0	198.0	196.0	200.5	201.0	185.0	190.0	155.0	200.0	188.0	197.0	198.0	196.0	9	
10	184.0	182.0	181.0	180.0	186.0	186.0	180.0	184.0	150.0	185.0	182.0	181.0	182.0	181.0	10	
12	158.0	156.0	155.0	153.0	161.0	161.0	159.0	158.0	145.0	159.0	157.0	156.0	157.0	155.0	12	
14	137.0	135.0	135.0	133.0	141.0	141.0	140.0	138.0	138.0	139.0	137.0	136.0	137.0	135.0	14	
16	121.0	119.0	118.0	116.0	125.0	125.0	123.0	122.0	122.0	123.0	121.0	120.0	121.0	119.0	16	
18	107.0	105.0	104.0	102.0	112.0	111.0	110.0	109.0	100.0	110.0	107.0	106.0	108.0	105.0	18	
20	96.0	93.0	92.0	90.0	101.0	100.0	99.0	98.0	97.0	99.0	96.0	95.0	96.0	94.0	20	
22	85.0	82.0	81.0	79.0	91.0	90.0	89.0	87.0	87.0	89.0	86.0	84.0	86.0	83.0	22	
24	75.0	73.0	72.0	69.0	82.0	81.0	80.0	78.0	78.0	79.0	76.0	75.0	77.0	74.0	24	
26	67.0	65.0	64.0	61.0	74.0	73.0	72.0	70.0	70.0	72.0	69.0	67.0	69.0	66.0	26	
28	61.0	58.0	57.0	54.0	67.0	67.0	65.0	64.0	63.0	63.5	62.0	61.0	62.0	59.0	28	
30	55.0	51.9	51.0	47.9	61.0	61.0	59.0	58.0	57.0	59.0	56.0	55.0	56.0	53.0	30	
32	49.0	45.5	44.6	41.5	56.0	56.0	54.0	52.0	52.0	54.0	51.0	49.0	51.0	48.0	32	
34	43.4	39.9	39.0	36.0	52.0	51.0	49.0	48.0	47.0	49.0	45.9	44.5	46.0	42.9	34	
36	38.5	35.0	34.1	31.1	47.0	46.8	45.0	43.1	42.6	44.7	41.0	39.6	41.2	38.0	36	
38	34.2	30.7	29.8	26.9	43.1	42.5	40.7	38.8	38.3	40.0	36.7	35.2	36.9	33.7	38	
40	30.4	26.9	26.0	23.0	39.2	38.6	36.8	34.9	34.4	36.5	32.8	31.4	33.0	29.9	40	
42	26.9	23.5	22.6	19.6	35.7	35.1	33.4	31.4	31.0	33.0	29.4	28.0	29.6	26.4	42	
44	23.8	20.4	19.5	16.5	32.6	32.0	30.3	28.3	27.9	29.9	26.3	24.9	26.5	23.3	44	
46	21.0	17.6	16.7	13.7	29.8	29.1	27.4	25.5	25.1	27.1	23.4	22.1	23.6	20.5	46	
48	18.4	15.0	14.1	11.2	27.2	26.6	24.8	22.9	22.5	24.5	20.9	19.5	21.1	18.0	48	
50	16.0	12.6	11.7	8.8	24.8	24.2	22.5	20.6	20.1	22.1	18.5	17.2	18.7	15.6	50	
52	13.8	10.4	9.5	6.6	22.7	22.0	20.3	18.4	18.0	20.0	16.4	15.0	16.6	13.5	52	
54	11.8	8.4	7.5	4.6	20.7	20.0	18.3	16.4	16.0	18.0	14.4	13.0	14.6	11.5	54	
56					18.8	18.1	16.5	14.6	14.1	16.1	12.5	11.2	12.7	9.7	56	
58					17.0	16.4	14.7	12.8	12.4	14.4	10.8	9.4	11.0	7.9	58	
60					14.4	13.8	12.4	10.7	10.1	11.6	8.2	7.3	8.5	5.8	60	
Code	11111111	12111110	21111110	22111100	00022222	00112222	00122221	00222111	00222220	01111122	01221111	02211111	11111112	12111111	Code	
Parts of line	17	17	17	16	15	15	14	14	11	15	14	15	15	15	Parts of line	

Lifting capacities with counterweight at the rear and 35° deployed angle



	63.7		63.7		63.7		69.4		69.4		69.4		69.4		69.4		
9	196.0	194.0	165.0														9
10	180.0	178.0	160.0	150.0	165.0	182.0	181.0	180.0	179.0	158.0	170.0	160.0	170.0	170.0	170.0	170.0	10
12	154.0	152.0	151.0	145.0	157.0	157.0	156.0	155.0	154.0	153.0	155.0	153.0	152.0	150.0	150.0	150.0	12
14	134.0	132.0	131.0	138.0	137.0	138.0	137.0	135.0	134.0	134.0	136.0	133.0	132.0	130.0	130.0	130.0	14
16	118.0	116.0	115.0	123.0	121.0	122.0	121.0	120.0	118.0	118.0	120.0	117.0	116.0	115.0	115.0	115.0	16
18	105.0	80.0	101.0	110.0	108.0	109.0	108.0	107.0	105.0	105.0	107.0	104.0	103.0	101.0	101.0	101.0	18
20	93.0	78.0	89.0	99.0	97.0	98.0	97.0	96.0	94.0	94.0	96.0	93.0	90.0	90.0	90.0	90.0	20
22	82.0	75.0	78.0	89.0	87.0	88.0	87.0	85.0	84.0	83.0	86.0	82.0	81.0	79.0	79.0	79.0	22
24	73.0	71.0	69.0	80.0	78.0	79.0	78.0	76.0	75.0	74.0	77.0	73.0	72.0	70.0	70.0	70.0	24
26	65.0	63.0	61.0	72.0	71.0	71.0	70.0	69.0	67.0	66.0	69.0	65.0	64.0	62.0	62.0	62.0	26
28	59.0	56.0	54.0	66.0	64.0	65.0	63.0	62.0	60.0	60.0	63.0	59.0	57.0	56.0	56.0	56.0	28
30	53.0	50.0	48.0	60.0	49.4	59.0	58.0	56.0	55.0	50.0	53.0	50.0	52.0	46.8	46.8	46.8	30
32	47.0	44.4	42.4	55.0	48.0	54.0	53.0	51.0	49.0	49.0	52.0	48.0	46.0	44.9	44.9	44.9	32
34	42.1	38.9	36.9	50.0	47.0	49.0	48.0	46.0	45.0	44.0	47.0	43.0	41.6	39.0	39.0	39.0	34
36	37.2	34.0	32.0	46.0	44.7	45.0	44.0	42.0	40.0	39.0	42.9	38.0	36.8	34.5	34.5	34.5	36
38	32.9	29.7	27.8	42.6	40.0	41.3	39.0	37.9	36.0	35.0	38.0	33.9	32.5	30.3	30.3	30.3	38
40	29.0	25.9	24.0	38.7	36.5	37.0	35.8	28.5	32.1	31.2	34.7	30.1	28.7	26.5	26.5	26.5	40
42	25.6	22.5	20.6	35.2	33.0	33.9	32.4	27.0	28.7	27.7	31.3	26.7	25.2	23.1	23.1	23.1	42
44	22.5	19.4	17.5	32.1	29.9	30.8	29.3	26.0	25.6	24.7	28.2	23.6	22.2	20.0	20.0	20.0	44
46	19.7	16.6	14.7	29.3	27.1	28.0	26.4	24.7	22.8	21.9	25.4	20.8	19.4	17.2	17.2	17.2	46
48	17.2	14.1	12.2	26.7	24.5	25.4	23.9	22.1	20.2	19.3	22.8	18.3	16.8	14.7	14.7	14.7	48
50	14.8	11.8	9.9	24.4	22.2	23.1	21.5	19.8	17.9	17.0	20.5	15.9	14.5	12.4	12.4	12.4	50
52	12.7	9.6	7.7	22.2	20.0	20.9	19.4	17.7	15.8	14.8	18.3	13.5	12.4	10.2	10.2	10.2	52
54	10.7	7.6	5.7	20.2	18.1	19.0	17.4	15.7	13.8	12.9	16.4	11.8	10.4	8.3	8.3	8.3	54
56	8.8	5.8	3.9	18.4	16.2	17.1	15.6	13.9	12.0	11.1	14.5	10.0	8.6	6.5	6.5	6.5	56
58	7.1	4.1		16.7	14.5	15.4	13.9	12.2	10.3	9.4	12.8	8.3	6.9	4.8	4.8	4.8	58
60	5.1			15.1	12.9	13.8	12.3	10.6	8.7	7.8	11.2	6.7	5.3	3.2	3.2	3.2	60
62				13.6	11.4	12.3	10.8	9.1	7.2	6.3	9.7	5.2	3.9				62
64				12.1	10.0	10.9	9.4	7.7	5.8	4.9	8.3	3.8					64
Code	21111111	22111110	22211000	0012222	0022221	0111222	0112221	0122211	0222111	0222210	1111122	1221111	2211111	2221110			Code
Parts of line	15	15	12	11	12	14	14	14	13	12	13	12	13	13			Parts of line

Lifting capacities with counterweight at the rear and 35° deployed angle



	69.4	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	
10	175.0															10
12	149.0	135.0	140.0	153.0	142.0	152.0	150.0	153.0	152.0	140.0	135.0	140.0	148.0	148.0		12
14	130.0	133.0	136.0	134.0	133.0	133.0	134.0	133.0	132.0	131.0	131.0	130.0	129.0	129.0		14
16	114.0	121.0	120.0	119.0	117.0	117.0	119.0	118.0	117.0	116.0	115.0	114.0	114.0	113.0		16
18	101.0	108.0	108.0	106.0	105.0	104.0	106.0	105.0	104.0	103.0	102.0	102.0	101.0	100.0		18
20	89.0	97.0	97.0	95.0	94.0	94.0	96.0	95.0	93.0	92.0	91.0	90.0	89.0	89.0		20
22	78.0	84.0	84.0	80.0	83.0	83.0	83.0	84.0	83.0	81.0	81.0	75.0	79.0	76.0		22
24	69.0	79.0	78.0	76.0	75.0	74.0	77.0	75.0	74.0	73.0	72.0	71.0	70.0	69.0		24
26	61.0	71.0	71.0	69.0	67.0	67.0	69.0	68.0	66.0	65.0	64.0	63.0	62.0	62.0		26
28	55.0	65.0	64.0	62.0	60.0	60.0	62.0	61.0	60.0	58.0	58.0	57.0	56.0	55.0		28
30	49.0	59.0	58.0	57.0	55.0	54.0	57.0	56.0	54.0	53.0	52.0	51.0	50.0	50.0		30
32	43.8	54.0	51.0	48.0	50.0	48.0	52.0	47.9	49.0	48.0	47.0	46.0	45.0	45.0		32
34	38.0	49.0	49.0	47.0	45.0	45.0	47.0	46.0	45.0	43.0	42.0	40.0	39.0	39.0		34
36	33.4	45.0	45.0	43.0	40.0	40.0	43.0	42.0	40.0	38.0	37.0	37.0	35.0	35.0		36
38	29.1	42.0	40.0	38.0	37.0	36.0	39.0	37.0	36.0	34.6	33.5	32.7	31.3	30.8		38
40	25.3	38.0	37.0	35.0	33.3	32.9	35.7	34.0	32.6	30.8	29.7	28.9	27.5	27.0		40
42	21.9	34.7	32.0	32.1	28.0	29.5	32.3	30.8	29.2	27.4	26.3	25.5	24.1	23.6		42
44	18.8	31.6	31.0	29.0	26.8	26.4	29.2	27.7	26.1	24.3	23.2	22.5	21.0	20.5		44
46	16.1	28.8	28.2	26.2	24.0	23.6	26.4	24.9	23.3	21.5	20.4	19.7	18.2	17.8		46
48	13.5	26.2	25.6	23.6	21.4	21.0	23.8	22.4	20.7	19.0	17.9	17.1	15.7	15.2		48
50	11.2	23.9	23.3	21.3	19.1	18.7	21.5	20.0	18.4	16.7	15.6	14.8	13.4	12.9		50
52	8.5	21.7	21.1	19.2	17.0	16.6	19.0	17.9	16.3	14.6	13.5	12.7	11.3	10.8		52
54	7.1	19.8	19.2	17.2	15.0	14.6	17.4	15.9	14.3	12.6	11.5	10.8	9.3	8.9		54
56	5.3	17.9	17.3	15.4	13.2	12.8	15.5	14.1	12.5	10.8	9.7	9.0	7.5	7.1		56
58	3.7	16.2	15.7	13.7	11.5	11.1	13.8	12.4	10.8	9.1	8.0	7.3	5.9	5.4		58
60		14.7	14.1	12.1	9.9	9.5	12.3	10.8	9.3	7.5	6.5	5.7	4.3	3.8		60
62		13.2	12.6	10.6	8.5	8.1	10.8	9.4	7.8	6.1	5.0	4.3	2.8			62
64		11.8	11.2	9.3	7.1	6.7	9.4	8.0	6.4	4.7	3.6	2.9				64
66		10.5	9.9	8.0	5.8	5.4	8.1	6.7	5.1	3.4						66
68		9.3	8.7	6.7	4.6	4.2	6.9	5.5	3.9							68
70		8.1	7.5	5.6	3.4	3.0	5.7	4.3	2.7							70
Code	2222100	0022222	0112222	0122221	0222211	0222220	1111222	1112221	1122211	1222111	2211220	2221111	2222110	2222200		Code
Parts of line	13	10	10	11	10	11	11	11	11	10	10	10	11	11		Parts of line

Lifting capacities with counterweight at the rear and 35° deployed angle

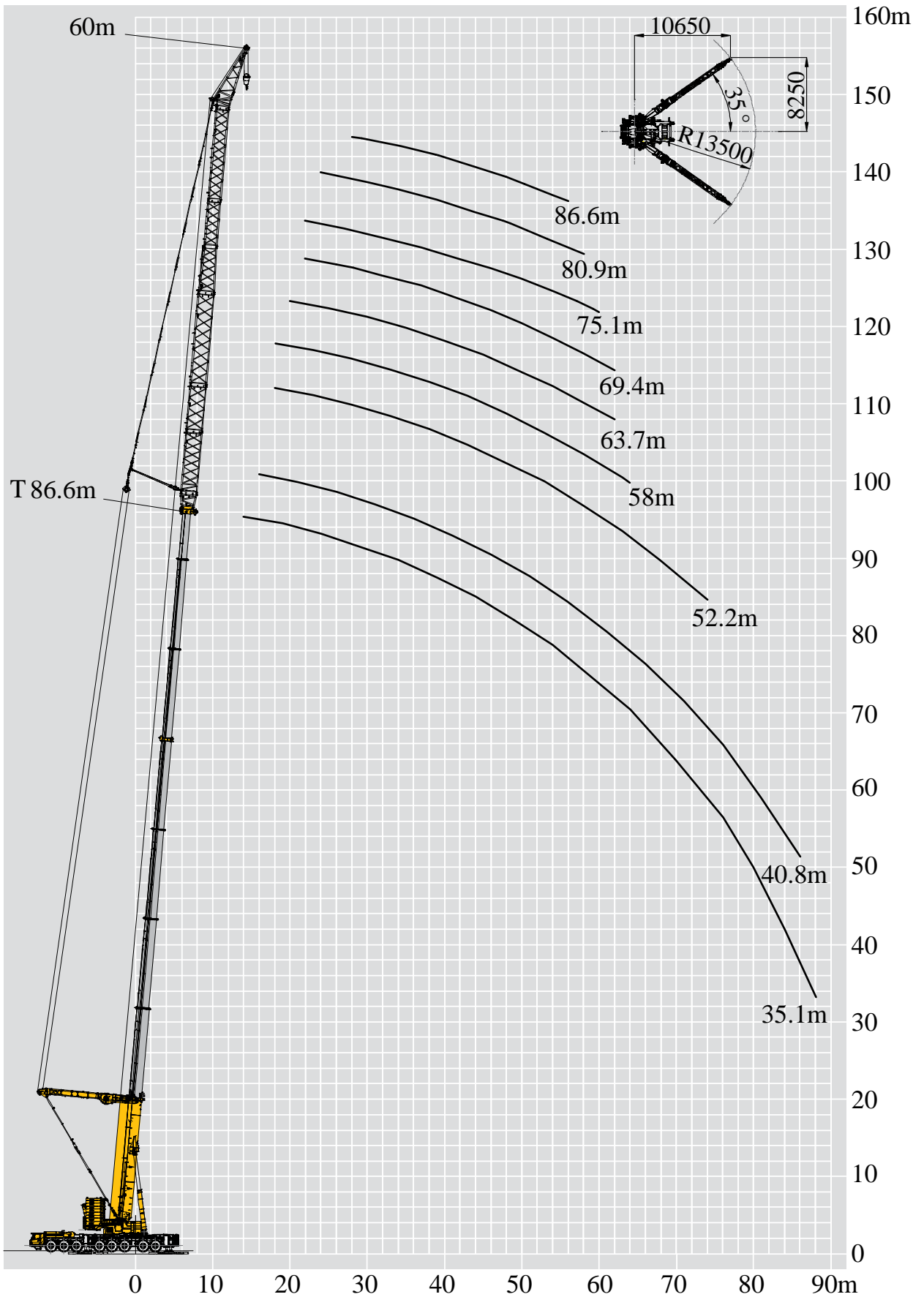


	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	86.6	86.6	86.6	86.6	86.6	88.6	
14	131.3	130.0	128.0	110.0	105.0	107.0	95.9	112.0							14
16	118.0	117.0	117.0	108.0	103.0	104.0	94.3	110.2	90.9	100.0	100.0	102.0	105.0	98.0	16
18	106.0	104.0	105.0	104.0	102.0	102.0	92.2	100.0	89.2	98.2	98.2	99.3	100.0	94.1	18
20	95.0	94.0	94.0	93.0	92.0	91.0	90.0	89.0	88.4	93.0	91.0	89.0	89.0	83.6	20
22	85.0	83.0	84.0	83.0	81.0	81.0	79.0	79.0	83.0	83.0	81.0	79.0	79.0	74.1	22
24	77.0	75.0	76.0	74.0	70.0	72.0	68.0	70.0	75.0	74.0	73.0	71.0	70.0	66.5	24
26	69.0	67.0	68.0	67.0	65.0	65.0	63.0	63.0	68.0	67.0	65.0	61.0	63.0	60.0	26
28	63.0	61.0	62.0	60.0	59.0	58.0	57.0	56.0	61.0	61.0	59.0	57.0	57.0	56.0	28
30	57.0	55.0	56.0	55.0	53.0	53.0	51.0	50.0	56.0	55.0	53.0	51.0	51.0	51.0	30
32	52.0	50.0	51.0	50.0	48.0	48.0	46.0	45.0	51.0	50.0	49.0	46.0	46.0	46.0	32
34	48.0	46.0	47.0	45.0	44.0	43.0	40.0	40.0	47.0	46.0	44.0	42.0	40.0	40.0	34
36	44.0	42.0	43.0	40.0	38.0	38.0	37.0	36.0	43.0	42.0	39.0	37.0	37.0	36.0	36
38	39.0	37.0	38.0	37.0	35.0	35.0	33.0	32.7	38.0	38.0	36.0	34.0	33.0	33.0	38
40	36.0	34.0	35.0	34.0	32.0	31.6	29.7	28.9	35.0	35.0	33.0	30.8	30.0	30.0	40
42	33.0	31.0	32.0	30.6	28.6	28.2	26.3	25.5	32.0	32.0	29.9	27.4	27.1	26.8	42
44	30.6	25.0	29.4	27.5	25.5	25.1	23.2	22.4	29.7	29.0	26.9	24.3	24.0	23.7	44
46	27.8	24.0	26.6	24.8	22.7	22.3	20.4	19.6	26.9	26.3	24.1	21.5	21.2	20.9	46
48	25.3	22.8	24.1	22.2	20.2	19.8	17.9	17.1	24.4	23.8	21.5	19.0	18.7	18.4	48
50	22.9	20.5	21.7	19.9	17.8	17.5	15.6	14.8	22.0	21.5	19.2	16.7	16.4	16.1	50
52	20.8	18.4	19.6	17.8	15.7	15.4	13.5	12.7	19.9	19.3	17.1	14.6	14.3	14.0	52
54	18.8	16.4	17.5	15.8	13.8	13.4	11.5	10.0	18.0	17.4	15.1	12.6	12.3	12.1	54
56	17.0	14.6	15.8	14.0	12.0	11.6	9.7	8.9	16.1	15.6	13.3	10.8	10.5	10.3	56
58	15.3	12.9	14.1	12.3	10.3	9.9	8.0	7.3	14.5	13.9	11.7	9.2	8.9	8.6	58
60	13.7	11.4	12.6	10.7	8.7	8.4	6.5	5.7	12.9	12.3	10.1	7.6	7.3	7.1	60
62	12.3	9.9	11.1	9.3	7.3	6.9	5.0	4.3	11.4	10.9	8.7	6.2	5.9	5.6	62
64	10.9	8.5	9.7	7.9	5.9	5.6	3.7	2.6	10.1	9.5	7.3	4.8	4.5	4.3	64
66	9.6	7.3	8.5	6.7	4.6	4.3			8.8	8.2	6.0	3.6	3.2	3.0	66
68	8.4	6.1	7.3	5.4	3.4	3.1			7.6	7.1	4.8				68
70	7.3	4.9	6.1	4.3					6.5	5.9	3.7				70
72	6.2	3.8	5.0	3.2					5.4	4.9	2.7				72
74	5.2	2.8	4.0						4.4	3.9					74
76	1.4		3.0						3.5	2.9					76
78									2.6						78
Code	0122222	0222221	1112222	1122221	1222211	1222220	2222111	2222210	0222222	1122222	1222221	2222211	2222220	3322220	Code
Parts of line	10	10	9	8	8	8	7	8	7	7	7	7	8	7	Parts of line

Lifting capacities with counterweight at the rear and 35° deployed angle


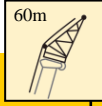
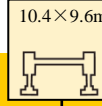

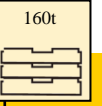



	92.3	92.3	93.3	93.3	98	99	101	103	103	104	105	
16	88.0	100.0	83.8	94.8	76.7	74.7	62.0					16
18	84.5	95.0	80.4	93.1	73.1	70.8	61.0	50.4	50.3	50.2	50.0	18
20	80.1	84.6	76.4	84.6	69.0	67.7	60.2	49.2	49.5	49.2	49.8	20
22	72.0	75.1	70.9	75.1	66.1	64.4	59.9	48.2	48.2	48.0	48.8	22
24	69.4	67.5	68.5	66.5	63.0	61.5	56.5	47.5	47.5	47.1	46.0	24
26	62.0	64.0	66.0	63.0	60.3	60.3	52.9	46.3	46.2	46.0	45.5	26
28	59.0	57.0	60.0	57.0	58.0	57.0	51.9	45.8	45.6	45.5	43.7	28
30	54.0	52.0	54.0	52.0	52.0	52.0	50.3	43.0	44.8	42.1	41.8	30
32	49.0	47.0	49.0	47.0	48.0	47.0	47.0	41.8	43.0	40.5	39.2	32
34	45.0	43.0	45.0	42.0	43.0	43.0	43.0	41.0	42.8	40.3	38.2	34
36	40.0	38.0	40.0	37.0	38.0	38.0	38.0	38.0	38.0	38.0	35.6	36
38	36.0	34.0	36.0	34.0	35.0	35.0	34.0	30.0	31.0	30.4	30.0	38
40	33.0	31.0	34.0	31.0	32.0	32.0	32.0	29.5	30.2	29.8	29.2	40
42	31.0	28.7	31.0	28.0	29.0	29.0	29.0	29.0	29.0	29.0	28.5	42
44	28.0	25.7	28.0	25.5	27.0	27.0	26.8	27.0	27.0	27.0	27.0	44
46	25.6	22.9	25.8	21.5	24.4	22.2	24.0	24.9	24.0	24.0	24.6	46
48	23.0	20.4	23.3	20.2	21.8	21.6	21.5	22.4	21.7	16.6	22.1	48
50	20.7	18.1	21.0	17.9	19.5	19.3	19.2	20.1	19.4	16.2	19.8	50
52	18.6	15.9	18.8	15.8	17.4	17.2	17.1	17.9	17.3	15.8	17.7	52
54	16.6	14.0	16.9	13.8	15.5	15.3	15.1	16.0	15.3	15.0	15.7	54
56	14.8	12.2	14.7	12.0	13.5	13.5	13.3	14.2	13.5	13.7	13.9	56
58	13.2	10.5	13.4	10.3	12.0	11.8	11.7	11.0	11.5	11.3	11.5	58
60	11.6	9.0	11.9	8.8	10.4	10.3	10.1	10.5	10.3	10.5	10.7	60
62	10.2	7.5	10.4	7.4	9.0	8.8	8.7	9.5	8.9	9.0	9.3	62
64	8.8	6.2	9.1	6.0	7.7	7.5	7.3	8.2	7.5	7.7	7.9	64
66	7.5	4.9	7.8	4.8	6.4	6.2	6.1	6.9	6.3	6.4	6.7	66
68	6.4	3.7	6.6	3.6	5.2	5.0	4.9	5.8	5.1	5.3	5.5	68
70	5.2	2.6	5.5		4.1	3.9	3.8	4.7	4.0	4.1	4.4	70
72	4.2		4.4		3.1	2.9	2.8	3.6	2.9	3.1	3.3	72
74	3.2		3.4					2.6				74
Code	1222222	2222221	1222223	3222221	2222222	3222222	3332222	2233333	3333322	3333332	3333333	Code
Parts of line	6	7	6	7	6	5	5	4	4	4	4	Parts of line



Lifting capacities with counterweight at the rear

T 35.1~92.3m

	     												
	35.1	35.1	35.1	40.8	52.2	58	63.7	69.4	75.1	80.9	86.6	92.3	
14	88.9	91.4	90.3										14
16	83.5	84.9	85.5	83.9									16
18	77.7	79.9	79.5	78.6	102.3	96.1							18
20	72.4	74.6	74.3	72.8	87.9	89.2	85.6						20
22	67.7	69.6	69.7	68.2	76.6	80.2	77.6	75.7	62.1				22
24	63.0	64.9	65.0	63.5	70.2	73.5	69.2	68.6	60.1	55.9			24
26	59.6	61.9	61.0	59.6	65.4	62.0	62.2	61.0	55.7	52.8			26
28	56.0	57.9	58.3	56.9	58.8	57.0	55.0	53.9	51.3	49.7	42.4		28
30	52.5	54.8	54.4	53.7	52.9	51.0	48.0	47.5	46.6	46.6	38.4	22.0	30
32	50.2	52.3	51.1	51.1	49.0	47.0	43.7	42.8	42.8	41.8	34.0	21.0	32
34	47.8	48.5	47.5	47.5	45.0	42.0	40.2	39.0	38.0	38.0	30.0	20.0	34
36	45.4	44.7	43.7	44.7	40.2	39.0	36.5	35.2	35.2	35.2	28.0	19.0	36
38	42.8	40.9	40.9	40.9	37.2	35.0	33.3	32.3	31.4	31.4	26.4	18.0	38
40	39.0	38.0	37.1	38.0	34.3	32.0	30.4	29.5	28.5	28.5	24.0	17.0	40
42	36.1	35.2	35.2	35.2	30.4	29.0	27.4	26.6	26.6	26.6	21.6	16.0	42
44	34.2	33.3	32.3	32.3	27.6	26.0	25.8	23.8	23.8	23.8	20.0	15.5	44
46	31.4	30.4	29.5	30.4	25.7	23.7	22.8	21.7	21.2	21.5	17.6	15.0	46
48	29.5	28.3	27.5	28.3	23.1	21.0	20.1	19.1	18.6	18.9	16.5	14.0	48
50	27.2	25.9	25.1	25.9	20.7	18.5	17.6	16.8	16.3	15.5	15.3	13.0	50
52	25.1	23.7	22.9	23.7	18.5	16.2	15.3	14.6	14.1	13.0	12.5	11.5	52
54	23.0	21.7	20.9	21.7	16.5	14.1	13.2	12.6	12.1	10.4	10.0	9.5	54
56	21.2	19.8	19.0	19.8	14.7	12.2	11.3	10.8	10.3	9.2	8.8	8.0	56
58	19.4	18.1	17.3	18.1	12.9	10.4	9.5	9.4	8.6	8.0	7.8	7.1	58
60	17.8	16.5	15.7	16.5	11.4	8.7	7.8	7.9	7.0	7.0	6.5	6.0	60
62	16.3	15.0	14.2	15.0	9.9	7.2	6.3	6.3	5.5	5.5	5.1	4.8	62
64	14.9	13.6	12.8	13.6	8.5	5.7	4.8	4.9	4.2	4.0	3.6	3.3	64
66	13.6	12.3	11.5	12.3	7.2	4.4	3.5	3.5	2.9	2.8			66
68	12.4	11.0	10.3	11.0	6.0	3.1							68
Code	0000021	0001110	0002100	0000220	1111110	2211100	2221100	2221110	2222110	2222111	2222220	2222221	Code
Parts of line	6	7	7	6	7	7	6	6	5	4	3	2	Parts of line

Lifting capacities with counterweight at the rear

T 35.1~92.3m



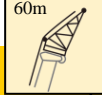
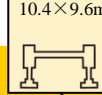

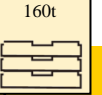


													
	35.1	35.1	35.1	40.8	52.2	58	63.7	69.4	75.1	80.9	86.6	92.3	
70	11.2	9.9	9.1	9.9	4.8								70
72	10.1	8.8	8.0	8.8	3.8								72
74	9.1	7.7	7.0	7.8	2.7								74
76	8.1	6.8	6.0	6.8									76
78	7.2	5.8	5.1	5.9									78
80	6.3	4.9	4.2	5.0									80
82	5.4	4.1	3.3	4.2									82
84	4.6	3.3	2.5	3.4									84
86	3.9	2.5		2.6									86
88	3.1												88
Code	0000021	0001110	0002100	0000220	1111110	2211100	2221100	2221110	2222110	2222111	2222220	2222221	Code
Parts of line	6	7	7	6	7	7	6	6	5	4	3	2	Parts of line

Table of main technical parameters

Category	Item	Unit	Parameter		
Dimensions	Dimensions (length × width × height)	mm	20000×3000×4000		
	Wheel base	mm	1650+1650+2960+1600+1650+2400+1600		
	Track (Front/ Rear)	mm	2540		
	Front/ Rear overhang	mm	2779/2500		
	Front/ Rear extension	mm	816/395		
Weight	Max. permissible weight	kg	96000		
	Axle load	1st axle	kg	12000	
		2nd axle	kg	12000	
		3rd axle	kg	12000	
		4th axle	kg	12000	
		5th axle	kg	12000	
		6th axle	kg	12000	
		7th axle	kg	12000	
8th axle	kg	12000			
Power	Engine model	—	Chassis) OM473LA.6-57	(Chassis) WP15H660E61	(Superstructure) WP7G300E473
	Engine rated power/rpm	kW/ (r/min)	480/1600	485/1800	220/2200
	Max. net power/rpm	kW/ (r/min)	480/1600	480/1800	220/2200
	Max. output torque/rpm	N.m/ (r/min)	3100/1100	3200/900-1400	1200/ (1400 ~ 1600)
Travel	Max. travel speed	km/h	80/70		
	Min. stable travel speed	km/h	2		
	Min. turning diameter	m	26.5		
	Min. ground clearance	mm	330		
	Approach angle	°	15.2		
	Departure angle	°	13		
	Braking distance (at 30 km/h)	m	≤10		
	Max. grade ability	%	40		
	Fuel consumption per 100 km	L	130		
Noise	Exterior noise level	dB(A)	≤88		
	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	900	
	Min. rated working radius		m	2.5	
	Turning radius at turntable tail		mm	4500	
	Max. load moment	Base boom		kN.m	22500
		Fully-extended boom		kN.m	12970
		Fully-extended boom + Jib		kN.m	3800
	Outrigger span	Longitudinal		m	10.4
		Lateral		m	9.6
	Hoist height	Base boom		m	17.9
		Fully-extended boom		m	105
		Fully-extended boom + Jib		m	160
	Boom length	Base boom		m	17.9
		Fully-extended boom		m	105
Fully-extended boom + Jib		m	160		
Working speed	Boom raising time		s	≤130	
	Boom fully extending time		s	≤1700	
	Max. slewing speed		r/min	1	
	Outrigger extending and retracting time	Outrigger beam	Retracting	s	≤60
			Extending	s	≤60
		Outrigger jack	Retracting	s	≤85
			Extending	s	≤85
	Hoisting speed (single line, 10th layer, no load)	Main winch		m/min	≥145
Hoisting speed (single line, 10th layer, no load)	Winch system for luffing jib		m/min	≥130	
Noise	Exterior noise level		dB (A)	≤124	
	Noise level at seated position		dB (A)	≤90	

Description of symbols

General symbols

	Superstructure		Chassis
	Lifting capacity		Axle
	Boom length		Driving speed
	Radius		Gradeability
	Boom angle		Tires
	Boom hoisting height		Outriggers
	Fixed jib length		Hook block
	Jib offset angle		Counterweight
	Jib josting height		Winch
	Independent jib head / Wind power jib		360° operation of the boom
	Luffing jib		Super lift

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 t) 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.
5. A lifting operation is permissible only when the wind force is below grade 5 (instantaneous wind speed is 14.1 m/s, wind pressure is 125 N/m²).



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