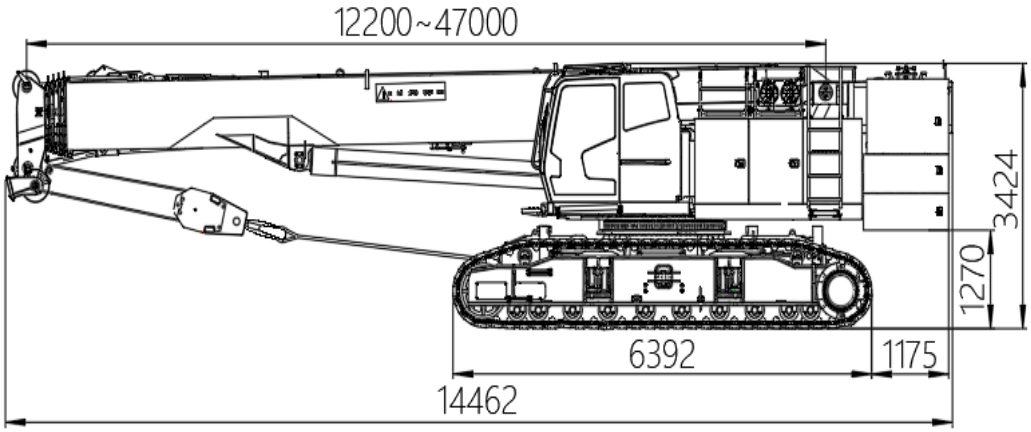
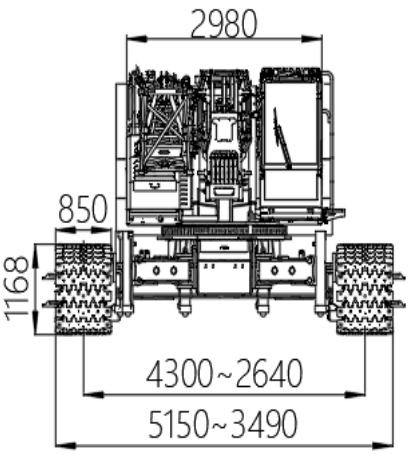
XGTC80 CRAWLER CRANE

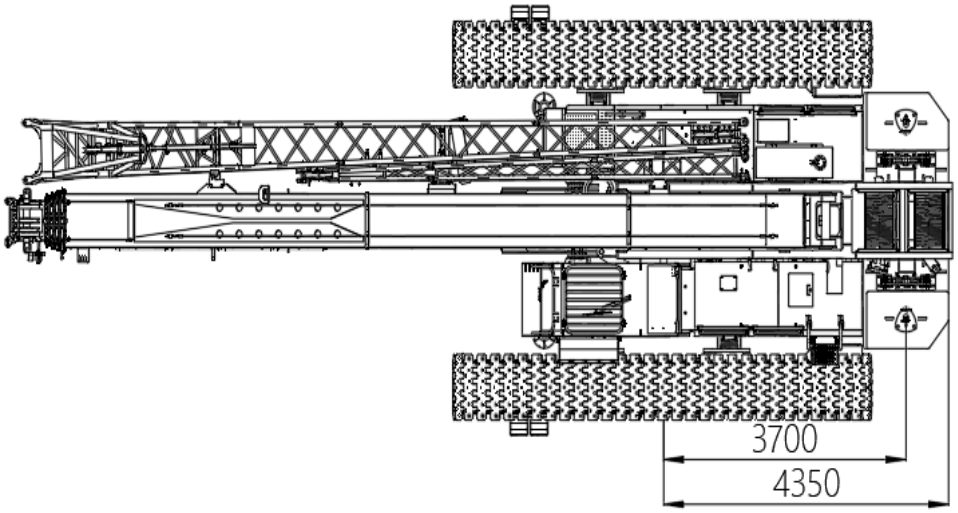
Technical specification

Contents

Dimensions (mm)







Technical specifications

➢ Car-body

- Car-body is made of high-strength steel plate and welded in box type structure, cross panel is set in the middle to strengthen its torsion stiffness, simple structure, high load bearing capacity and good rigidity, with outriggers.

➢ Track frame

- It includes track beam, track roller, drive sprocket, idler, carrier roller and track shoe. Track frame is box type structure, its connection with car-body is strengthened partially, and cross panel is installed in the middle of it. The two track frames are symmetrically distributed. The rollers and track shoes are all made of high strength alloy cast steel.

➢ Travel system

- Crawler travel unit has built-in planetary reducer, driven by axial piston variable displacement motor. The reducer is set with hydraulic release travel brake, safe and reliable. The two travel systems can be operated synchronously or separately to realize straight travel and turning.

➢ Hoisting system

- Hoisting system includes main hoisting and aux. hoisting.
- Main and auxiliary hoisting systems adopt built-in reducers and driven independently. They are installed on turntable tail by flange. The reducer is installed with normally-closed disc brake, safe and reliable; the reducer is lubricated by splashing oil, free of maintenance. The hoisting system has features of easy oil replacement, low noise, high efficiency and long service life, with good fine motion performance.

➢ Luffing cylinder

- Luffing cylinder is a driving device for boom radius change which is realized by luffing cylinder telescoping. Luffing cylinder is also the device to keep boom angle when lifting a load.

➢ Slewing system

- Slewing system is arranged at the right front part of turntable, driven by motor.
- Planetary reducer is externally meshed with slewing bearing for slewing, with function of hydraulic buffering and free swing, ensure safe operation. The reducer is installed with normally-closed disc brake, reliable in work and easy for maintenance.
- Slewing bearing: single-row four-points contact ball slewing bearing, its bearing capacity is very strong which can ensure a safe and stable 360° slewing.

➢ Hydraulic system

- The system is hydraulic proportional control, with the features of accurate control, good fine motion and wide range of speed adjustment. Hydraulic systems of crane telescoping, luffing, hoisting and travel share one constant-power and loading-sensitive pump. The oil supply of slewing system and pilot system is provided by independent gear pump.
- Hydraulic parts adopted are mature and reliable, with advanced and high efficient hydraulic driving control techniques. Easy to operate and convenient to maintain. Hydraulic system and electrical system cooperate with each other to ensure the safety and stability of the basic machine.

Technical specifications

➢ Electrical system

- Intelligent computer integrated programming control system is the key technology of this product. It uses PLC programmable controller as the core of control system. The system consists of engine control, safety control, pilot control, load moment control and auxiliary functions control, these parts work together to realize automatic control of crane, greatly increase the safety, reliability and efficiency for crane operation.
- The operation of this crane is shown by a big computer screen, easy for man-machine dialog.

Battery model	Qty.	Total rated voltage	Total rated capacity
6-QAW-180D	2	24 V	360Ah

➢ Safety devices

- Safety devices include: load moment indicator, rope end limiter, hook latch, closed-circuit monitoring system, height mark lamp, electronic level gauge, anemometer (optional), buzzer and warning light, function interlock, emergency function, automatic fault diagnosis system, power-off protection and etc.

➢ Engine

- Cummins engine (B6.7).
- Rated power/speed: 209kW/2200rpm.
- Meet EURO V emission standard.
- It has features of compact structure, small volume, light weight, high output power, low oil consumption, less pollution, reliable work and long service life, the engine can satisfy the demanding working condition for telescopic crawler cranes.

➢ Operator’s cab

- The operator’ s cab is spacious and comfortable, with steel frame structure. The front is integral laminated glass, while others are tempered glass. The cab is equipped with adjustable seat, ergonomic designed instruments and control devices, air conditioner (for heating and cooling), radio, fire extinguisher and closed circuit monitoring system.
- When the crane is in operation, the cab can be tilted upwards and downwards to widen the field of vision for easier operation.

➢ Turntable counterweight

- Turntable counterweight has three combination types: 8.5t, 15.5t and 23t. Independent load charts corresponding to different counterweight combinations are provided to meet different purchase and lifting needs of customers. Self-assembly device is configured for turntable counterweight to achieve turntable counterweight self-assembly and disassembly.
- Turntable counterweight is installed at the rear of turntable. Optional turntable counterweight combinations are as follows:

No.	Weight of turntable counterweight	Combination type of counterweight slab	Undercarriage counterweight
1	0t	0t	3.6t
2	8.5t	8.5t	3.6t
3	15.5t	8.5 t/+7t	3.6 t
4	23t	8.5t+7t+ 3.75t+3.75t	3.6 t

Technical specifications

➢ Hook block

- There are 3 types of hooks available, and the specific parameters are as follows:

Hook name	Max. lifting weight (t)	Number of pulleys (pc)	Weight (t)
80t hook	80	6	0.7
55t hook (optional)	55	3	0.47
7t hook	7	0	0.15

Main technical parameters

Type	Item		Unit	Value	Tolerance range
Dimension parameters	Crane length		mm	14462	±1%
	Crane width (extend/retract)		mm	5150/3490	-1%～0
	Crane height		mm	3424	-1%～0
	Center distance between drive and driven rollers		mm	5460	±1%
	Crawler shoe width		mm	850	±1%
Weight parameters	Crane weight in travel state		kg	81700	±3%
Travel	Max. travel speed with no load		km/h	1.8 (high speed)/1.0 (low speed)	±5%
	Min. ground clearance		mm	463	±1%
	Max. grade ability (no load)		%	40	≤
	Ground pressure		MPa	0.086	≤
Power	Engine model		-	B6.7	/
	Engine rated power		kW	209	/
	Engine rated speed		r/min	2200	/
	Emission standard		-	EURO V	/
Volume	Hydraulic oil tank capacity		L	1050	±3%
	Fuel tank capacity		L	500	±3%
Main performance parameters	Max. rated lifting capacity		t	80	±5%
	Max. lifting moment	Basic boom	kN•m	2964.5	±5%
	Boom Length	Shortest boom	m	12.2	±1%
		Max. main boom length	m	47	±1%
		Max. main boom+jib length	m	64.5	±1%
	Jib offset angle		°	0°, 15°, 30°	≤1°

Main technical parameters

Type	Item		Unit	Value	Tolerance range
Dimension parameters	Crane length		mm	14462	±1%
Working speed	Boom raising time (0～80°)		s	60	≤
	Boom fully-extended time		s	110	≤
	Max. slewing speed (basic boom, no load)		r/min	1.8	≥
	Lifting speed (No load, the 4th layer)	Main hoisting system	m/min	140	≥
		Auxiliary hoisting system	m/min	90	≥
Transport	Max. weight of single piece in transport state		t	55.1 (include crawler tracks)	±3%
	Max. dimension of single piece in transport state		m	14.46×3.49×3.42	±1%

Notes: 1. Single line speed is the calculated value of the rope on the 4th layer of drum with engine idle running, which changes according to different loads and working conditions.

2. Travel speed, slewing speed and grade ability are the theoretical values for the crane set on level and solid ground and with the crane weight of 81.7t.

3. Travel speed with full load is the theoretical value for the crane set on level and solid ground, not the allowable speed for crane travel with load. Due to the impact caused by ground and operation, the travel speed with load suspended shall not exceed 0.4km/h;

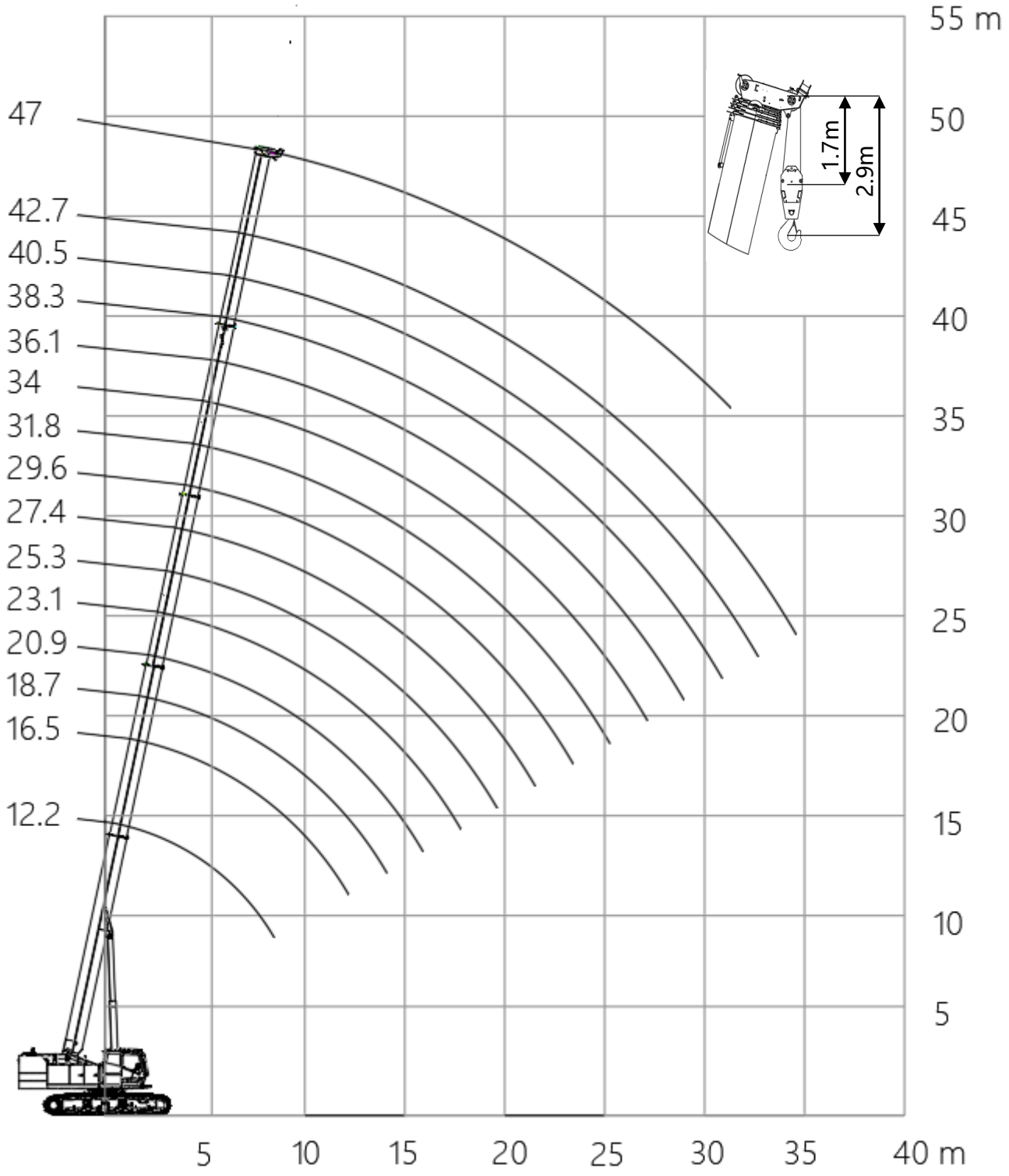
4. Unless otherwise specified, the data in this table is the configuration based on 23t turntable counterweight and 3.6t car-body counterweight.

5. Our company reserves the right to update and revise the technical parameters caused by technical improvement without notice.

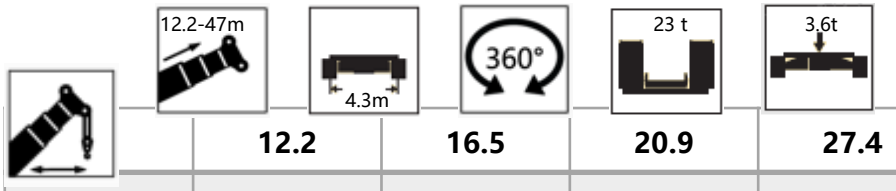
Operation mode and lifting performance

Main boom	Main boom + boom point pulley	Main boom + fixed jib
Main boom: 12.5 ~ 47 m	Main boom: 12.5 ~ 47 m	Main boom: 12.5 ~ 47 m Fixed jib: 10.5m/17.5 m

Operation mode and lifting performance-main boom operation mode



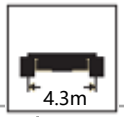
Operation mode and lifting performance-main boom operation mode

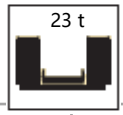


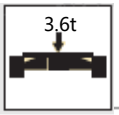
12.2~47m

	12.2	16.5	20.9	27.4	34	40.5	47
3	80.0						
4	69.5	67.2	44.3				
5	60.5	58.9	44.0				
6	49.5	46.5	41.5	28.5			
7	37.9	37.9	35.3	28.5	23.4		
8	30.2	30.2	30.1	26.5	23.5	17.0	
9	24.7	24.8	24.8	25.0	22.9	15.8	
10		20.7	20.7	22.0	21.4	15.2	11.5
12		15.5	15.4	16.5	16.6	14.9	10.5
14		11.3	11.4	12.7	13.3	13.0	10.0
16			8.7	10.0	10.8	10.9	9.5
18			6.6	8.0	8.8	9.1	8.5
20				6.5	7.2	7.7	7.6
22				5.2	6.0	6.5	6.6
24					4.9	5.4	5.7
26					4.1	4.6	4.9
28					3.3	3.8	4.2
30						3.2	3.6
32						2.7	3.0
34						2.2	2.5
36						1.3	2.1
38							1.7
	12	10	7	4	4	3	2
The 2nd boom section	0%	50%	100%	100%	100%	100%	100%
The 3rd boom section	0%	0%	0%	25%	50%	75%	100%
The 4th boom section	0%	0%	0%	25%	50%	75%	100%
The 5th boom section	0%	0%	0%	25%	50%	75%	100%

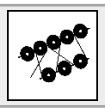
Operation mode and lifting performance-main boom operation mode



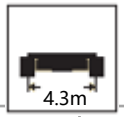


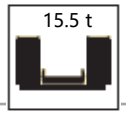


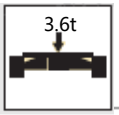
18.7~42.7m

	18.7	**23.1**	**25.3**	**29.6**	**31.8**	**36.1**	**38.3**	**42.7**
4	27.5							
5	27.5	26.6	25.1					
6	27.5	26.6	25.1	24.8	20.4			
7	27.5	26.6	25.1	24.8	19.2	18.0		
8	25.2	22.4	21.5	20.3	17.8	18.0	14.0	11.7
9	25.0	22.4	20.3	20.3	16.8	17.3	13.6	11.7
10	23.0	22.4	19.2	19.6	15.5	14.6	12.4	11.7
12	17.2	16.8	17.2	17.6	13.8	13.0	11.1	11.5
14	13.4	13.0	14.3	14.3	12.4	11.6	9.8	10.1
16	10.0	10.3	11.6	11.7	11.0	10.5	8.7	8.2
18		8.3	9.5	9.7	9.8	9.6	7.8	7.4
20		6.4	7.9	8.1	8.5	8.1	7.1	6.8
22			6.5	6.9	7.2	6.8	6.5	6.1
24				5.9	6.1	5.7	6.0	5.7
26				4.9	5.3	4.9	5.5	5.1
28						4.1	4.8	4.5
30						3.5	4.2	3.8
32							3.6	3.3
34								2.8
36								2.4
	4	4	4	4	3	3	2	2
The 2nd boom section	0%	50%	0%	50%	0%	50%	0%	50%
The 3rd boom section	25%	25%	50%	50%	75%	75%	100%	100%
The 4th boom section	25%	25%	50%	50%	75%	75%	100%	100%
The 5th boom section	25%	25%	50%	50%	75%	75%	100%	100%

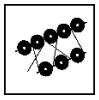
Operation mode and lifting performance-main boom operation mode



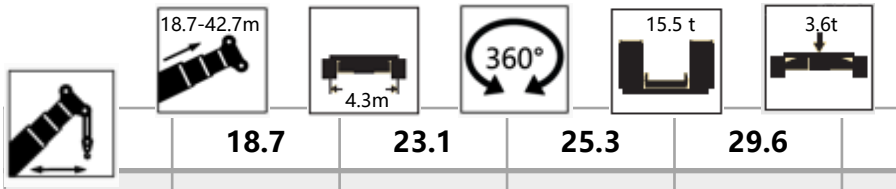




12.2~47m

	12.2	16.5	20.9	27.4	34	40.5	47
3	75.0						
4	68.0	61.0	42.0				
5	47.0	55.0	42.0				
6	33.4	38.7	38.4	27.5			
7	25.5	28.6	28.3	27.5	22.0		
8	20.2	22.2	22.0	23.2	21.0	17.0	
9	16.5	17.9	17.6	18.8	17.8	15.8	
10		14.7	14.5	15.6	15.0	15.2	11.5
12		12.3	12.1	13.1	11.0	11.5	10.5
14		8.7	8.6	9.7	8.4	8.8	9.1
16			6.3	7.3	6.6	7.0	7.3
18			4.6	5.6	5.2	5.6	5.8
20				4.3	4.1	4.5	4.8
22				3.3	3.3	3.6	3.9
24				2.5	2.6	2.9	3.2
26					2.0	2.3	2.6
28					1.5	1.8	2.1
30					1.1	1.4	1.7
32						1.0	1.3
	12	10	7	5	4	3	3
The 2nd boom section	0%	50%	100%	100%	100%	100%	100%
The 3rd boom section	0%	0%	0%	25%	50%	75%	100%
The 4th boom section	0%	0%	0%	25%	50%	75%	100%
The 5th boom section	0%	0%	0%	25%	50%	75%	100%

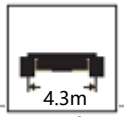
Operation mode and lifting performance-main boom operation mode

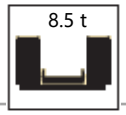


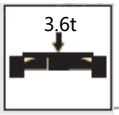
18.7~42.7m

	18.7	23.1	25.3	29.6	31.8	36.1	38.3	42.7
4	27.5							
5	27.5	26.6	25.1					
6	27.5	26.6	25.1	24.8	20.4			
7	27.5	26.6	25.1	24.8	19.2	18.0		
8	25.2	22.4	21.5	20.3	17.8	18.0	13.6	11.7
9	22.1	21.4	20.3	20.6	16.8	17.3	13.6	11.7
10	18.6	18.2	19.2	18.5	15.5	14.6	12.4	11.7
12	13.8	13.3	14.7	14.4	13.8	13.0	11.1	11.5
14	10.5	10.1	11.5	11.4	12.0	11.3	9.8	10.1
16		7.8	9.1	9.2	9.7	9.2	8.7	8.2
18		6.1	7.4	7.5	7.9	7.5	7.8	7.4
20			6.0	6.2	6.5	6.1	6.9	6.5
22				5.2	5.5	5.1	5.8	5.4
24				4.3	4.6	4.2	4.9	4.5
26					3.8	3.4	4.1	3.8
28						2.8	3.5	3.2
30						2.3	3.0	2.6
32							2.5	2.2
34								1.8
36								1.4
	4	4	4	4	3	3	2	2
The 2nd boom section	0%	50%	0%	50%	0%	50%	0%	50%
The 3rd boom section	25%	25%	50%	50%	75%	75%	100%	100%
The 4th boom section	25%	25%	50%	50%	75%	75%	100%	100%
The 5th boom section	25%	25%	50%	50%	75%	75%	100%	100%

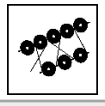
Operation mode and lifting performance-main boom operation mode

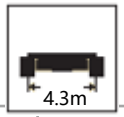


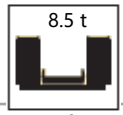


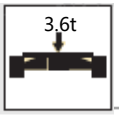
12.2~47m

	12.2	16.5	20.9	27.4	34	40.5	47
3	75.0						
4	60.5	53.6	42.0				
5	37.5	39.1	35.5				
6	26.4	30.2	27.7	26.7			
7	19.9	22.4	22.3	21.9	21.4		
8	15.6	17.2	16.9	18.2	17.0	17.0	
9	12.6	13.6	13.4	14.6	13.9	14.3	
10		11.0	10.8	11.9	11.5	12.0	11.5
12		9.0	8.8	9.9	8.3	8.7	9.0
14			6.0	7.1	6.2	6.6	6.9
16			4.1	5.1	4.6	5.0	5.3
18			2.7	3.7	3.5	3.9	4.1
20				2.7	2.6	3.0	3.2
22				1.9	1.9	2.3	2.5
24				1.2	1.3	1.7	1.9
26						1.2	1.5
28							1.0
	12	10	7	4	4	3	2
The 2nd boom section	0%	50%	100%	100%	100%	100%	100%
The 3rd boom section	0%	0%	0%	25%	50%	75%	100%
The 4th boom section	0%	0%	0%	25%	50%	75%	100%
The 5th boom section	0%	0%	0%	25%	50%	75%	100%

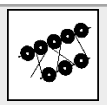
Operation mode and lifting performance-main boom operation mode

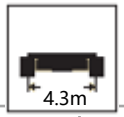


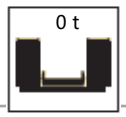


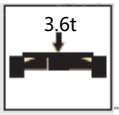
18.7~42.7m

	18.7	23.1	25.3	29.6	31.8	36.1	38.3	42.7
4	27.5							
5	27.5	26.6	25.1					
6	27.5	26.6	25.1	24.8	20.4			
7	25.8	23.6	24.6	22.6	19.2	18.0		
8	21.4	19.7	20.8	19.3	17.8	18.0	13.6	11.7
9	17.6	16.7	17.9	16.7	16.8	16.0	13.6	11.7
10	14.7	14.2	15.5	14.6	15.2	14.0	12.4	11.7
12	10.6	10.2	11.6	11.2	11.8	11.0	11.1	10.6
14	7.9	7.5	8.8	8.8	9.3	8.7	9.3	8.4
16		5.6	6.9	6.9	7.4	6.9	7.5	6.8
18		4.2	5.4	5.6	5.9	5.5	6.2	5.5
20			4.3	4.5	4.8	4.4	5.1	4.6
22				3.6	3.9	3.5	4.2	3.8
24				2.9	3.1	2.8	3.5	3.1
26					2.5	2.1	2.8	2.5
28						1.6	2.3	2.0
30						1.2	1.9	1.5
32							1.5	1.1
	4	4	4	4	3	3	2	2
The 2nd boom section	0%	50%	0%	50%	0%	50%	0%	50%
The 3rd boom section	25%	25%	50%	50%	75%	75%	100%	100%
The 4th boom section	25%	25%	50%	50%	75%	75%	100%	100%
The 5th boom section	25%	25%	50%	50%	75%	75%	100%	100%

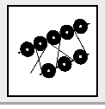
Operation mode and lifting performance-main boom operation mode

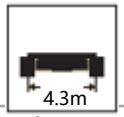


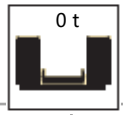


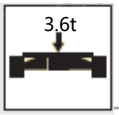
12.2~47m

	12.2	16.5	20.9	27.4	34	40.5	47
3	71.0						
4	43.8	38.1	33.7				
5	28.0	27.3	24.6				
6	19.4	20.6	18.7	18.4			
7	14.4	16.1	14.7	14.9	14.5		
8	11.0	12.7	11.7	12.2	12.1	11.8	
9	8.6	9.9	9.5	10.1	9.9	10.1	
10		7.7	7.7	8.4	8.1	8.6	8.4
12		4.7	4.7	6.0	5.6	6.0	6.2
14			2.7	4.1	3.9	4.3	4.6
16			1.3	2.7	2.7	3.1	3.4
18				1.6	1.8	2.2	2.4
20					1.1	1.5	1.7
22							1.2
	12	10	6	4	3	3	3
The 2nd boom section	0%	50%	100%	100%	100%	100%	100%
The 3rd boom section	0%	0%	0%	25%	50%	75%	100%
The 4th boom section	0%	0%	0%	25%	50%	75%	100%
The 5th boom section	0%	0%	0%	25%	50%	75%	100%

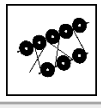
Operation mode and lifting performance-main boom operation mode



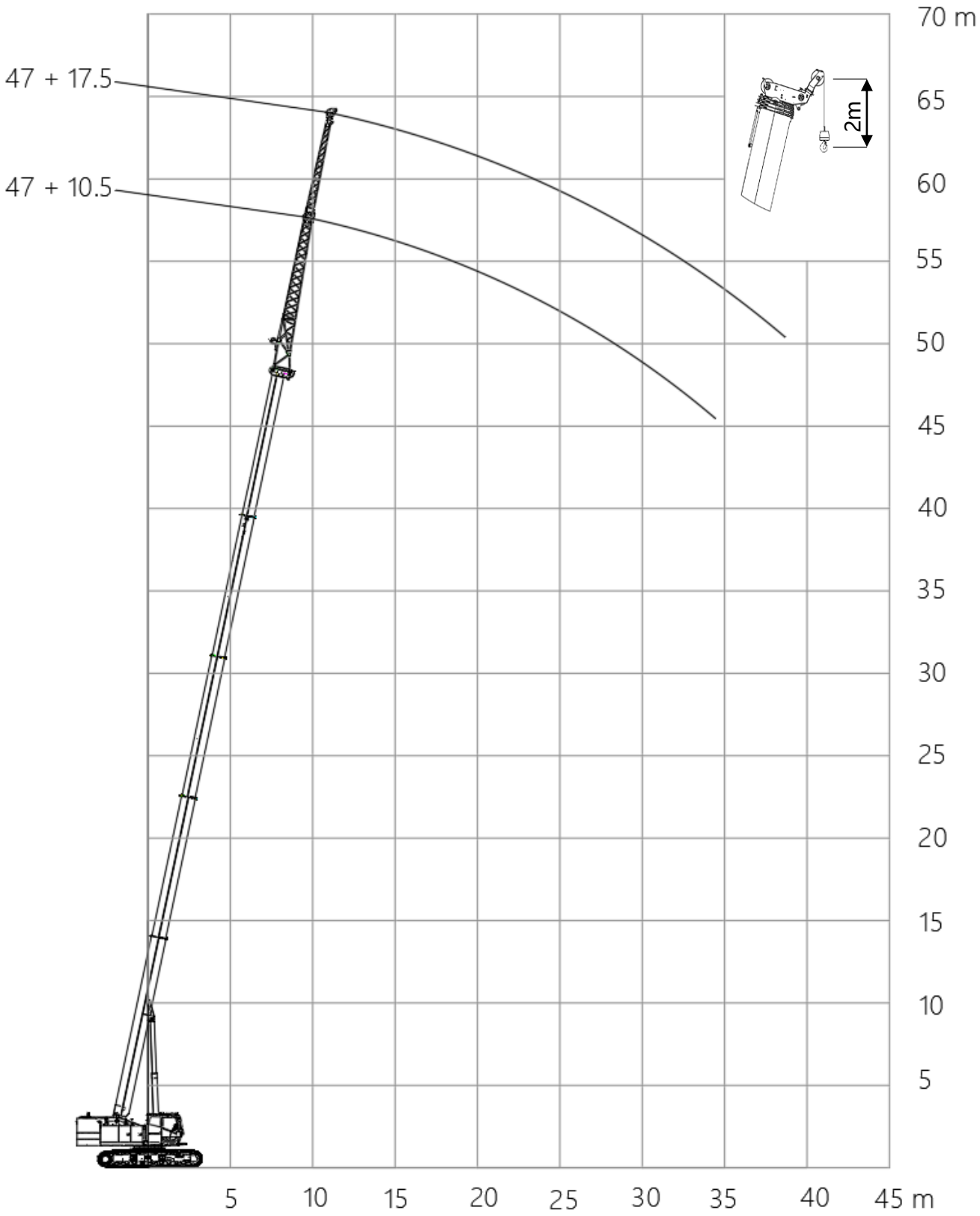




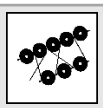
18.7~42.7m

	18.7	23.1	25.3	29.6	31.8	36.1	38.3	42.7
4	27.5							
5	27.5	25.7	25.1					
6	22.4	20.1	21.2	19.2	19.9			
7	18.0	16.1	17.4	15.9	16.6	15.1		
8	14.7	13.2	14.5	13.4	14.0	12.8	13.4	11.7
9	12.1	11.0	12.3	11.5	12.0	10.9	11.6	10.6
10	9.9	9.2	10.5	9.8	10.4	9.4	10.1	9.2
12	6.8	6.4	7.7	7.4	8.0	7.1	7.8	6.9
14	4.7	4.3	5.7	5.6	6.1	5.4	6.1	5.3
16		2.9	4.2	4.2	4.7	4.2	4.8	4.1
18		1.8	3.0	3.2	3.6	3.1	3.8	3.1
20			2.2	2.4	2.7	2.3	3.0	2.4
22				1.7	2.0	1.6	2.3	1.8
24				1.2	1.4	1.0	1.7	1.3
26							1.3	
28								
30								
	4	4	4	4	3	3	2	2
The 2nd boom section	0%	50%	0%	50%	0%	50%	0%	50%
The 3rd boom section	25%	25%	50%	50%	75%	75%	100%	100%
The 4th boom section	25%	25%	50%	50%	75%	75%	100%	100%
The 5th boom section	25%	25%	50%	50%	75%	75%	100%	100%

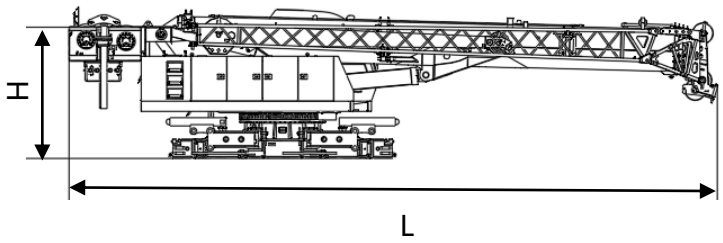
Operation mode and lifting performance-fixed jib operation mode



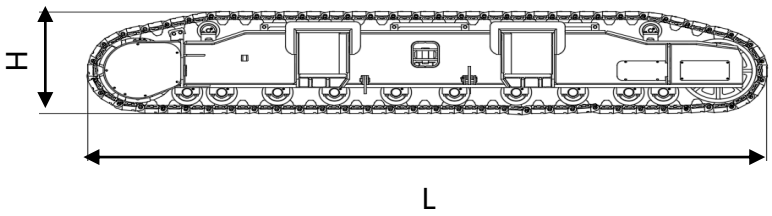
Operation mode and lifting performance-fixed jib operation mode

	47m+10.5m			47m+17.5m			
	0°	15°	30°	0°	15°	30°	
11	5.50						11
12	4.94	4.05					12
14	4.69	3.95	3.73	3.3			14
16	4.54	3.95	3.59	2.9	2.4		16
18	4.54	3.86	3.32	2.7	2.2		18
20	4.44	3.64	3.14	2.45	2.1	1.7	20
22	4.13	3.41	2.95	2.2	1.95	1.6	22
24	3.83	3.18	2.82	2.05	1.85	1.55	24
26	3.57	3.00	2.73	1.9	1.75	1.5	26
28	3.27	2.86	2.59	1.75	1.65	1.45	28
30	2.8	2.68	2.50	1.7	1.55	1.4	30
32	2.4	2.59	2.41	1.6	1.55	1.35	32
34	2	2.2	2.3	1.45	1.4	1.3	34
36	1.7	1.8	1.9	1.35	1.35	1.25	36
38	1.4	1.5	1.6	1.3	1.3	1.2	38
40	1.1	1.2	1.3	1.25	1.25	1.15	40
42	0.9	1	1.1	1.1	1.2	1.15	42
44	0.7	0.8	0.8	0.9	1.1	1.1	44
46		0.6	0.6	0.7	0.9	1	46
48					0.7	0.8	48
50						0.6	50
	1						

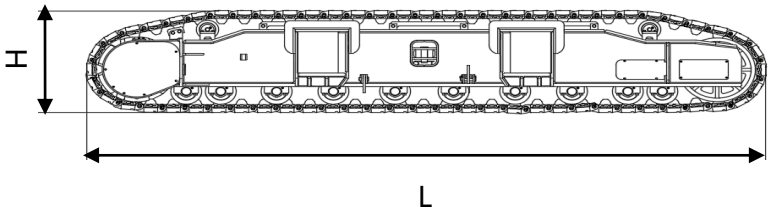
Dimensions of transported components



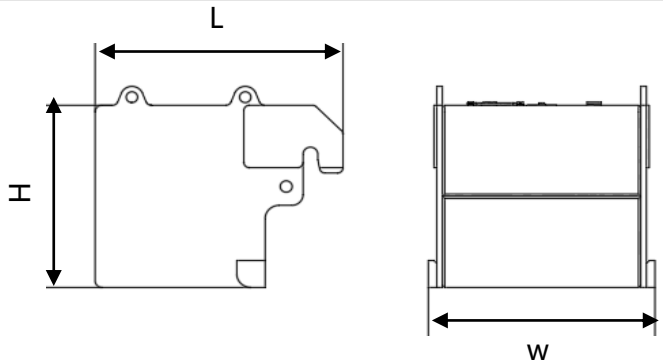
Basic machine (with jib)	×1
L	14.46 m
W	2.99 m
H	2.975 m
Weight	36.5 t



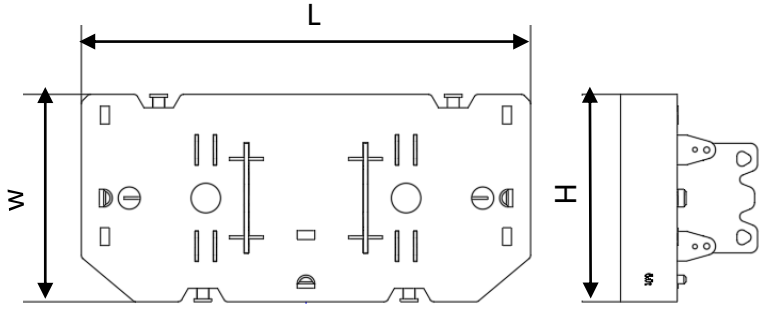
Left track frame	×1
L	6.382 m
W	0.85 m
H	1.153 m
Weight	9.3 t



Right track frame	×1
L	6.382 m
W	0.85 m
H	1.153 m
Weight	9.3 t

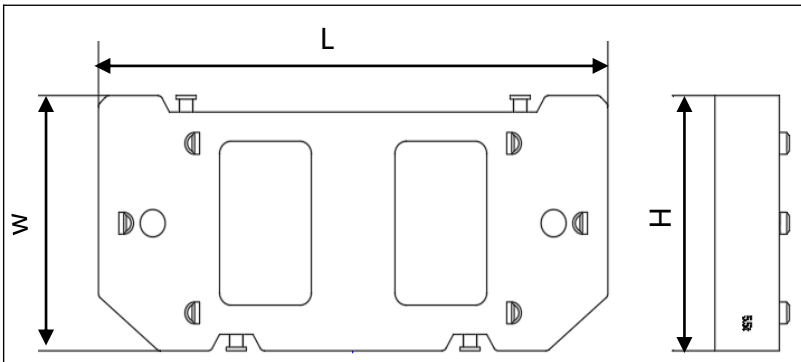


Car-body counterweight slab	×2
L	1.175 m
W	0.733 m
H	0.87 m
Weight	1.8 t

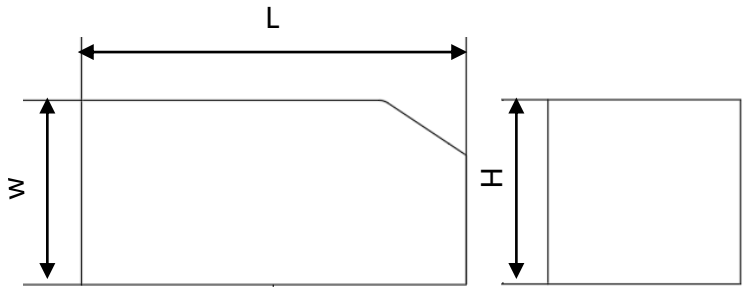


Turntable counterweight tray	×1
L	3.3 m
W	1.3 m
H	0.475 m
Weight	8.5 t

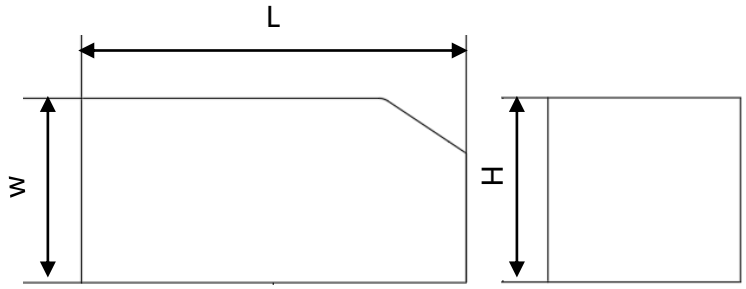
Dimensions of transported components



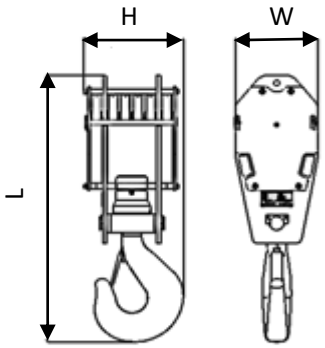
Turntable counterweight slab I	×1
L	3.3 m
W	1.3 m
H	0.5 m
Weight	7 t



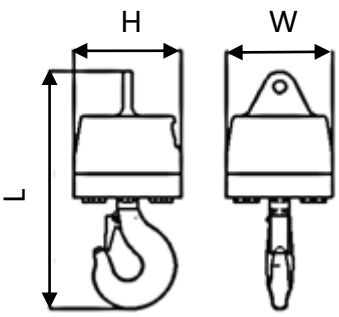
Turntable counterweight slab II	×1
L	1.25 m
W	0.74 m
H	0.97 m
Weight	3.75 t



Turntable counterweight slab III	×1
L	1.25 m
W	0.74 m
H	0.97 m
Weight	3.75 t

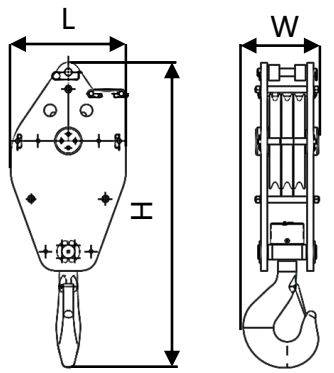


80t hook block	×1
L	1.735 m
W	0.55 m
H	0.51 m
Weight	0.7 t



70t hook block	×1
L	0.717 m
W	0.36 m
H	0.36 m
Weight	0.15 t

Dimensions of transported components



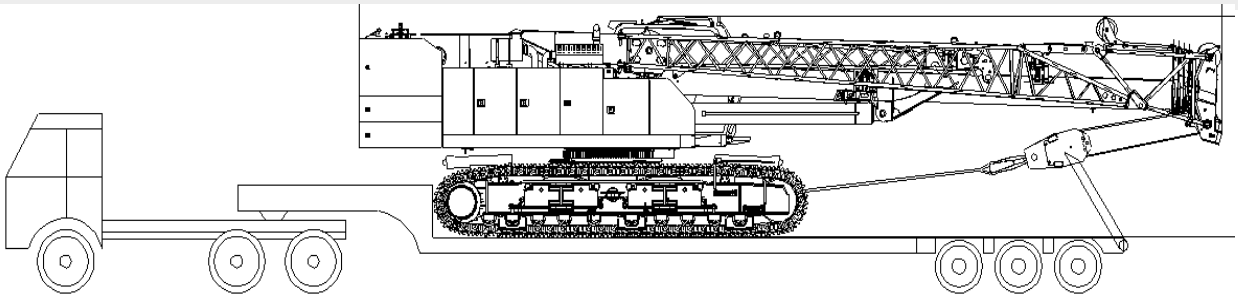
55t hook block	×1
L	1.586 m
W	0.36 m
H	0.51 m
Weight	0.47 t

Note: Slight difference is ineluctable during product manufacture, the dimension and weight of some parts may vary as continuous improvement of products.

Transport plans

➢ Two transport plans for the basic machine are provided according to laws and regulations and the user’s actual condition.

- Basic machine transport plan A (no part is removed, the crane is transported as a whole)



Weight (t)	Dimension (m)
81.7	14.46×3.49×3.42

- When transporting, insert turntable locking pin, and use rope to secure the basic machine on transport vehicle to avoid falling during transportation.

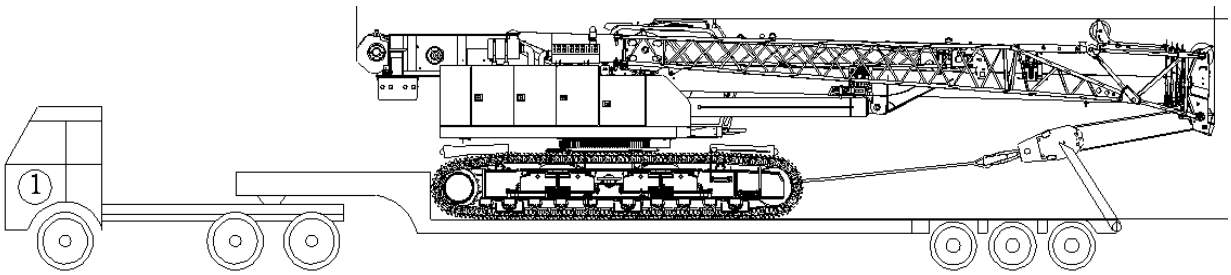
Notes: 1. Make sure the oil level in fuel tank is > 1/3 (to avoid the tank being empty when the crane tilts forward and backward), retract the track frames to narrow gauge mode (track gauge 2640mm, crawler width 3490mm), fix car-body swing leg in accordance with the limit state, and lock turntable and car-body mechanically with slewing lock pin.

2. When driving the crane to get on the trailer, retract boom completely (fix boom and jib head to prevent them from moving out, or use rope to fix main hook and the basic machine, as shown in figure), make boom head facing backward, keep boom angle less than 10°, and let drive sprocket at the rear side while idler at the front side, operate the travel pedal slowly (low speed gear), pay close attention to travel deviation during the driving process.

3. When the crawler track enters the slope and approaches the change point of center of gravity, elevate boom (raise boom slowly) to change the center of gravity of the crane, so that the crawler shoes at the idler side are fully contact with the trailer.

Transport plans

- Basic machine transport plan B (turntable counterweights and car-body counterweights are removed)



Weight (t)	Dimension (m)
55.1	14.46×3.49×3.42

- When transporting, insert turntable locking pin, and use rope to secure the basic machine on transport vehicle to avoid falling during transportation.

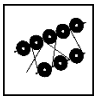
Notes: 1. Make sure the oil level in fuel tank is > 1/3 (to avoid the tank being empty when the crane tilts forward and backward), retract the track frames to narrow gauge mode (track gauge 2640mm, crawler width 3490mm), fix car-body swing leg in accordance with the limit state, and lock turntable and car-body mechanically with slewing lock pin.

2. When driving the crane to get on the trailer, retract boom completely (fix boom and jib head to prevent them from moving out, or use rope to fix main hook and the basic machine, as shown in figure), make boom head facing backward, keep boom angle less than 45°~55°, and let drive sprocket at the rear side while idler at the front side, operate the travel pedal slowly (low speed gear), pay close attention to travel deviation during the driving process.

3. When the crawler track enters the slope and approaches the change point of center of gravity, elevate boom (raise boom slowly) to change the center of gravity of the crane, so that the crawler shoes at the idler side are fully contact with the trailer.

4. When driving the crane to get off the trailer, make boom facing backward, keep boom angle at 45°~55°, operate the travel pedal slowly.

Symbols

	360° slewing
	Turntable counterweight
	Central counterweight
	Track gauge
	Parts of line

	Main boom angle
	Fixed jib
	Main boom working radius
	Main boom length

Points for attention

1. This document and all information are for reference only. Do not rely on it to operate the crane! For correct operating instructions of the crane, please refer to "*Operation Manual*" and "*Rated Lifting Capacity Manual*".

2. The crawler tracks must be fully extended (track gauge 4300mm) when the crane is working.

3. The lifting capacity listed in the lifting performance table is "t". It is the maximum total lifting capacity that the crane can guarantee on a stable and horizontal surface with gradient not more than 1% under the current boom length and radius, including the weight of the hook and sling. The actual weight of the load is the value after the weight of the above items is subtracted.

2. The working radius in the lifting performance table is the horizontal distance from the lifted load to the slewing axis of the crane when the load is lifted off the ground.

5. The rated loads shown in the lifting performance tables are the values when the crane is set on flat and solid ground with gradient not exceed 1% and the load is lifted slowly.

6. The rated loads shown in the lifting performance tables are calculated according to standard EN13000：2010+A1：2014 when the wind speed is below 9.8m/s.

7. The rated lifting capacity in the lifting performance tables includes the weight of lifting hook and sling. The actual maximum lifting weight is the value after the weight of hook, sling and wire rope are deducted.

8. Operate the crane within the range of main boom elevation angle, do not exceed this range even though no load is lifted.

9. This product has multiple operation modes, and the product images in the document may not be standard configurations. Each functional component can be customized and purchased according to different needs.

10. This printed material does not belong to the contract. We reserve the right to make changes to product models, parameters and configurations without notice due to the need of continuous product improvement. The pictures are for reference only, please prevail to the actual product.

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