



Construction Equipment & Engineering

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XGTC30L5-E Telescopic Crawler Crane



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02

XGTC30L5-E **Telescopic Boom Crawler Crane**

P03-P04 Highlights

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Highlights

1、 Strong lifting capacity, a wide working range and fully cover same-tonnage products of the industry

(1) Boom is made of 5 sections of “U” shaped parts, double cylinder plus ropes telescoping system, single-plate boom head, compact boom tail, embedded slider, enhanced bonding length, lifting capacity is leading the entire industry. Typical operation mode for basic construction: boom length of 34.2m @ working radius of 14m; rated lifting load of 5.6t; 7% better than competitors, so it can be said to be the strongest lifter of the same-tonnage products in the industry.

(2) Boom length: 10.8m~42m, jib length is 9m, which is the longest boom length (combination) in the industry among same-tonnage products, meeting requirements within a wide range of working radius.

(3) Standard smooth boom telescoping: there is no requirement on the telescoping sequence of 2nd boom section and 3rd~5th boom section, combination methods of boom and jib have increased from 7 to 15, which is more enriched, greatly strengthens lifting performance and adaptability of above-medium boom length.

(4) There is no need to remove boom for change of boom length, switching efficiency is higher and more flexible, and it can work in a height-restricted situation.

(5) Introduction of double-cylinder plus ropes telescoping system: 2nd boom section can realize extending and retracting movement through a separate telescoping cylinder (upper cylinder); 3rd boom section can realize extending and retracting movement through a separate telescoping cylinder (lower cylinder); meanwhile, 3rd boom section is interlinked with 4th and 5th boom sections through ropes, so the 3rd~5th boom sections can extend and retract simultaneously.

2、 Faster working speed, stronger maneuverability and higher working efficiency

(1) Working speed (travel speed of 3km/h; lifting speed of 140m/min) is leading the industry, capable of meeting quick lifting requirements.

(2) Multiple working modes: no-load travel, lift loads from standing position, travel with loads, etc. It has good maneuvering ability and can meet diversified working requirements.

3.Special chassis (large wheel track and track gauge) is strong and stable, has large driving force for walking

Chassis structure is specially designed for telescopic boom crawler crane, which has large wheel track and track gauge (track gauge is 3900mm), resulting in excellent stability; chassis has a high off-ground distance, and good passing ability. It owns rolling crawler shoes specially made for excavators, which has a strong road grabbing performance, with the feature the crane won't easily slip and is very suitable to apply to complex construction sites like mountains and muddy roads.

4、 Humanized design makes it easy to operate and main-tain

(1) Operator's room has an all new design (inner buttons have evolved into integrated buttons that have higher reliability), coverings, ladder and service access are also new designs that improve operation and maintenance experience; cab is equipped with a cold/warm air conditioner, which offers comfortable intelligent operation experience.

(2) Being equipped with virtual wall and remote management function, control system is now more intelligent and has a higher level of safety for limited operation modes.

5.It can be transported with just one plate trailer, which is more economical

Crane overall weight is 42.8t, width <3.1m, can be transported with one plate trailer.

6、 Equipped with a large capacity power battery and high-power permanent magnet synchronous motor, it has strong power and long-lasting range

(1) The system integrates 229kw-h large capacity lithium iron phosphate power battery, with high safety performance and long service life; The power battery is cooled by liquid cooling and has a built-in heating film heating system, which has strong environmental adaptability and can meet the needs of most regions in China.

(2) Equipped with a 150kW permanent magnet synchronous motor, with a peak power of 240kW and strong power, it operates in constant torque mode at low speeds with high controllability.

(3) The system is equipped with an 80kW on-board charging system as standard, making charging convenient; At the same time, it has a 170kW high-power fast charging interface to meet different charging needs of customers.

Description of Components and Systems

1. Boom telescoping code

1) Boom

(1) Boom is made of 5 sections of “U” shaped parts, double cylinder plus ropes telescoping system, single-plate boom head, compact boom tail, embedded slider, enhanced bonding length, lifting capacity is strong.

(2) Boom length: 10.8m~42m, jib length is 9m, which is the longest boom length (combination) in the industry among same-tonnage products, meeting requirements within a wide range of working radius.

(3) Standard smooth boom telescoping: there is no requirement on the telescoping sequence of 2nd boom section and 3rd~5th boom section, combination methods of boom and jib have increased from 7 to 15, which is more enriched, greatly strengthens lifting performance and adaptability of above-medium boom length.

(4) There is no need to remove boom for change of boom length, switching efficiency is higher and more flexible, and it can work in a height-restricted situation.

(5) Introduction of double-cylinder plus ropes telescoping system: 2nd boom section can realize extending and retracting movement through a separate telescoping cylinder (upper cylinder); 3rd boom section can realize extending and retracting movement through a separate telescoping cylinder (lower cylinder); meanwhile, 3rd boom section is interlinked with 4th and 5th boom sections through ropes, so the 3rd~5th boom sections can extend and retract simultaneously.

2) Jib

1 jib section with a length of 9m; it has three offset angles: 0° , 15° , 30° .

3) Single top

It is installed at the boom top and used for single line operation. Its lifting performance is the same as that for boom, but the max. lifting load could not exceed 3t.

2. Turntable

Turntable is a critical load-carrying structural part that links superstructure and chassis. It is welded with high-strength steel plate, and is compound structure whose left side and right side are box-frame structures. Turntable is connected to chassis via slewing bearing and it has highly strength and good stability performances. Many major parts can be connected to different positions of turntable, such as operator's cab, luffing system, engine system, main pump, hydraulic valve, electric control cabinet, boom and superstructure counterweight, etc.

3. Winch system

Working principle of winch system: motor drives planet gear speed reducer, so that winch drum enables main hook or auxiliary hook to rise or fall.

A planet speed reducer is built in winch system, which has a normally closed brake that realizes a safe and reliable “spring-powered brake/hydraulic release” function.

Winch rope has a strong breaking force. Wire rope diameter for both main winch and auxiliary winch is ϕ 16 mm.

4. Slewing system

Slewing system and slewing bearing are driven through outer gearing, which is located at the front of turntable. Motor drives planet gear speed reducer and the reducer will work and enable slewing bearing to make 360° rotation.

A planet speed reducer is built in slewing system, which has a normally closed brake that realizes “spring-powered brake/hydraulic release” function, making sure that slewing movement has a very high level of braking safety.

Besides, slewing system has a mechanical slewing lock that increases slewing safety.

Slewing system has a free sliding function.

5. Slewing bearing

Slewing bearing has such features as large bearing capacity, small slewing resistance, wear resistance and long lifespan.

6. Operator's cab

Operator's cab adopts a bionics design that offers a wide range of vision and a sense of comfortable and convenient operation.

7. Frame

Frame is a box-like radial structure, welded with high-strength steel plate. The frame is rigid and strong.

8. Crawler unit

Crawler unit includes left unit and right unit, which is comprised of crawler frame, track shoe, track roller, sprocket, idler, carrier roller and walking mechanism as well as track takeup.

Crawler frame: bilateral symmetric, one at each side; it is a box structure welded with high strength steel plates.

Sprocket: is connected on outer casing of planet speed reducer through high-strength bolts.

Track roller: is a double flange design that can conduct self-lubrication as floating type seals are internally installed.

Tensioning wheel: it adjusts crawler tension degree through track adjuster and recoil group.

Carrier roller: floating type seals are internally installed to achieve self-lubrication function.

Track shoes: mounted on crawler beam.

Walking mechanism: constantly closed type planet gear speed reducer that has robust walking power, high flexibility and good maneuverability. Multiple disc wet type normally-closed brake is engaged by spring and released by hydraulic power.

9. Hydraulic system

Engine drives pumps through driving gear for the crane to make boom-up, luffing up, telescoping, slewing and traveling movements.

It is based on hydraulic pilot control, is accurate in speed, flexible in operation and has a good micro-motion characteristic. There is an air cooled hydraulic oil cooler equipped to effectively reduce the oil temperature.

Description of Components and Systems

9. Hydraulic system

Engine drives pumps through driving gear for the crane to make boom-up, luffing up, telescoping, slewing and traveling movements.

It is based on hydraulic pilot control, is accurate in speed, flexible in operation and has a good micro-motion characteristic. There is an air cooled hydraulic oil cooler equipped to effectively reduce the oil temperature.

10. Electric system

Electric system is mainly comprised of following parts: electric motor control, data monitoring, hydraulic system control, moment limit, safety monitoring, battery system control and charging control, etc.

Electric system is composed of regular electric system and PLC monitoring system.

Regular electrical system includes power source, start control, cab air conditioner, sound equipment, lighting (lamp) and wiper, etc.

PLC control system is used to control main and auxiliary winch, slewing and boom luffing movements, and monitor electric motor status and battery status. All the movements are in PLC logic control based on CAN-bus technology.

10. Electric system

Type: permanent magnet synchronous water-cooled motor
Electric motor has a small heating value, system power efficiency is as high as 96%; it has quick response, good micro-mobility, low vibration and low noise.

12. Counterweight

It contains one turntable counterweight slab of 11t. It has 0t and 11t lifting capacities.

13. Battery system

Battery system uses lithium iron phosphate battery, which has high safety level, long service life and good high-temperature performance. The system adopts liquid-cooling method for cooling and contains a built-in heating diaphragm for heating, so it is adaptable to construction sites of most domestic regions.

Safety Precautions

1. Emergency stop

It can quickly stop all movements in case of emergency.

2. Misoperation prevention function

Handle has a misoperation prevention function: a safety protection switch is located on front of handle; when this switch is not pressed down, signals of all movements are shielded, handle doesn't work, which avoids misoperation.

3. Rope discharge protection function

A rope discharge protector is mounted on boom head to avoid over-discharge of wire rope. When wire rope reaches a certain height, rope discharge protector indicator on display will turn on; meanwhile, lifting movement will automatically halt.

4. Lowering limitation function

Winch systems are equipped with a lowering limiter, which will protect wire rope from being over discharged from winch drum. When only three turns of wire rope are left on winch drum, lowering limiter indicator on display will turn on; meanwhile, falling movement will automatically halt.

5. Slewing lock function

This crane includes a slewing lock device that locks up slewing movement of superstructure.

6. Boom angle limit function

When boom rises to a specified angle, boom-up will be stopped; when boom angle is below the pre-set angle, boom-down will be stopped. It is under the control of LMI, which will give an audio warning.

7. Hook block latch function

All hook blocks are equipped with a safety latch, which prevents hook-mounted sling from coming off.

8. Hydraulic system protective function

Hydraulic system is equipped with hydraulic balance valve and hydraulic relief valve, which ensure system stability and safety during working hours.

9. LMI system

LMI can automatically detect boom angle and lifting load. It has a pre-warning and overload cut-off function.

10. Audible and visual alarm function

It has a tri-colored bar and an audible and visual alarm, can real time display vehicle load and movement state and can warn the driver and outdoor working staff.

Safety Precautions

11. Illuminator

Illuminators are located on the front of turntable, on top of and inside of operator's cab. In the night, illuminators supply lighting.

12. Rear-view mirror

Rear-view mirror is out of operator's cab, through which the operator will observe crane rear situation.

13. Height lamp

Height lamp is mounted on top of boom, serving as a kind of high-altitude caution.

14. Anemometer

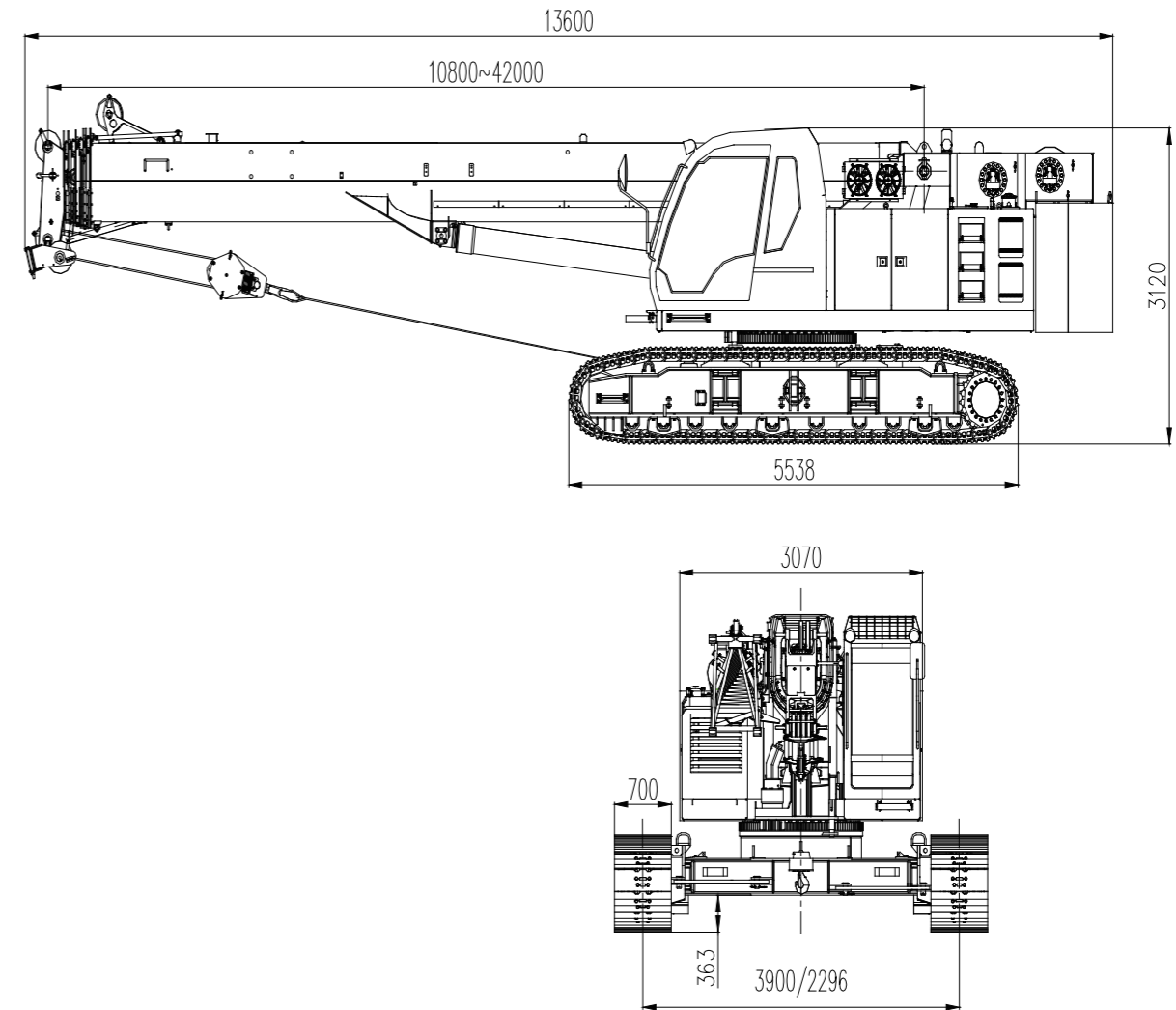
It real time detects current wind speed, and transmits it to the monitor of operator's cab, reminding operator to pay attention to wind load safety.

15. Level gauge

Level gauge shows degree of road inclination, and offers levelness reference to operator.

Main Technical Parameters

XGTC30L5-E Telescopic Boom Crawler Crane Overall Size



XGTC30L5-E telescopic boom crawler crane overall size diagram

Main Technical Parameters

2. Main technical data of XGTC30L5-E telescopic boom crawler crane

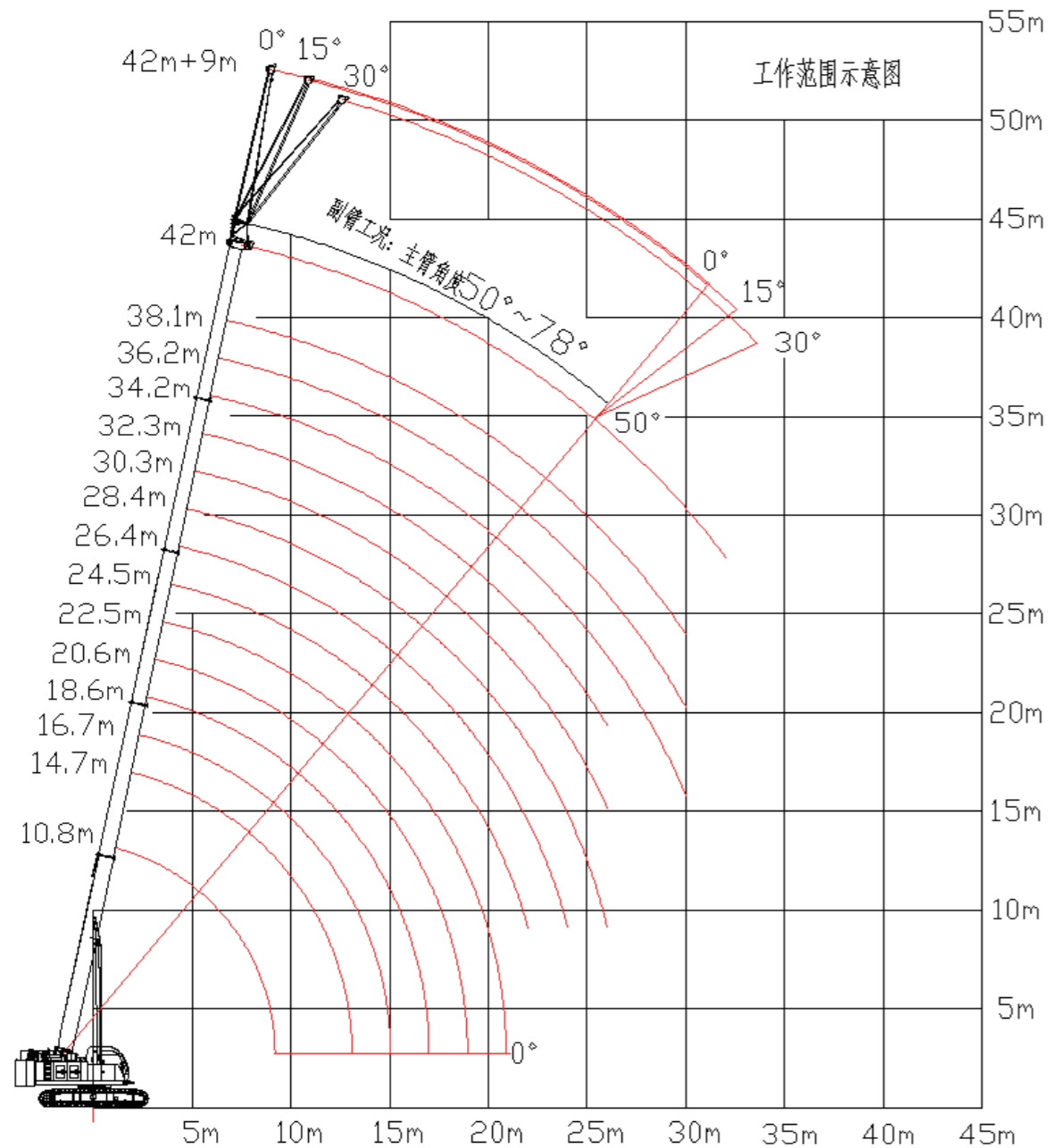
Item		Unit	Value
Max. rated lifting load	Boom OM	t	30
	Jib	t	3
	Single top mode	t	3
Max. load moment		kN. m	1182.5
Dimension parameter	Boom length	m	10.8~42
	Fixed jib length	m	9
	Max. length of telescopic boom sections	m	51 (42+9)
Speed parameter	Max. line speed of main winch	m/min	140
	Max. line speed of auxiliary winch	m/min	140
	Max. travel speed	km/h	3
Rotation speed		r/min	2.2
Grade ability		%	45
Electronic monitor	Electric motor model	-	TZ380XS029C
	Rated power/rated speed	KW/rpm	150/1685
Overall weight		t	42.8
Average ground pressure		MPa	0.06
Gradient		-	45%

XGTC30L5-E Telescopic Boom Crawler Crane

P13-19 Typical Operation Mode

Typical Operation Mode

1、Working range chart



2、Boom operation mode load chart

Boom operation mode, counterweight of 11t, with crawlers fully extended, static lifting (not walking):

Radius(m)	XGTC30L5-E boom performance table (counterweight of 11t, wide gauge, static lifting)														
	Boom Length(m)														
	10.8	14.7	16.7	18.6	20.6	22.5	24.5	26.4	28.4	30.3	32.3	34.2	36.2	38.1	42
3	30*	25.0	19.6												
3.5	27.0	25.0	19.6												
4	25.0	24.0	19.6	20.4	19.0	18.2									
4.5	23.8	23.0	19.6	19.1	18.9	18.0	18.2								
5	23.0	22.0	19.6	18.3	17.9	17.3	17.4	15.1							
5.5	21.5	19.7	19.0	18.0	17.1	16.3	16.8	15.1	11.1						
6	19.5	18.3	18.0	17.5	16.3	15.6	16.2	14.7	10.6	12.0					
6.5	17.0	16.2	16.2	15.4	15.5	14.9	15.1	14.0	10.2	11.7	10.9	8.1			
7	15.0	14.5	15.2	14.6	14.9	14.2	14.5	13.3	9.9	11.5	10.9	8.1	8.6		
8	12.3	11.9	13.3	11.7	12.6	13.2	11.8	12.1	9.8	11.3	10.1	8.0	8.5	6.8	
9		9.7	11.0	9.6	10.6	11.2	10.0	10.5	9.0	10.0	9.4	7.4	8.4	6.8	
10		8.0	9.3	7.9	8.8	9.7	8.7	9.1	8.8	8.6	8.7	6.9	8.2	6.7	5.8
11		6.7	7.9	6.6	7.5	8.3	7.4	7.9	8.0	7.6	7.8	6.5	7.3	6.3	5.7
12		5.5	6.8	5.6	6.4	7.3	6.2	6.9	7.4	6.7	6.9	6.3	6.4	6.2	5.5
13			6.0	4.6	5.6	6.4	5.3	6.0	6.6	5.7	6.1	5.8	5.7	5.8	5.3
14			5.2	3.9	4.8	5.6	4.6	5.3	5.9	5.1	5.4	5.6	5.1	5.4	4.9
15				3.3	4.2	5.0	4.0	4.6	5.2	4.4	4.9	5.2	4.5	4.8	4.4
16				2.8	3.7	4.5	3.5	4.1	4.7	4.0	4.4	4.8	4.1	4.4	4.2
18					2.8	3.5	2.7	3.2	3.8	3.1	3.5	3.9	3.3	3.6	3.2
20						2.8	1.9	2.5	3.1	2.4	2.8	3.3	2.7	3.0	2.8
22							1.4	2.0	2.6	1.9	2.3	2.7	2.0	2.4	2.3
24								1.5	2.1	1.4	1.8	2.3	1.6	2.0	1.9
26									1.7	1.0	1.4	1.9	1.2	1.6	1.5
28												1.6	1.0	1.3	1.1
30												1.3	0.7	1.0	0.8
32															0.6
25t hook									0.26t						
Parts of line	8	8	8	8	6	6	6	6	4	4	4	4	4	4	3
2nd boom section	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	50%	0%	100%	50%	100%
3/4/5	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	75%	100%	75%	100%	100%

Typical Operation Mode

Boom operation mode, counterweight of 0t, with crawlers fully extended, static lifting (not walking):

Radius(m)	XGTC30L5-E boom performance table (counterweight of 0t, wide gauge, static lifting)						
	Boom Length(m)						
	10.8	14.7	16.7	18.6	20.6	22.5	24.5
3	25.0	24.8	19.6				
3.5	23.0	19.5	19.6				
4	18.5	15.9	16.9	13.9	14.7	15.3	
4.5	15.2	13.2	14.3	11.6	12.5	13.2	11.1
5	12.5	11.1	12.3	9.8	10.8	11.5	9.6
5.5	10.4	9.5	10.7	8.4	9.4	10.1	8.4
6	8.6	8.1	9.4	7.3	8.3	9.0	7.3
6.5	7.3	7.0	8.2	6.3	7.3	8.1	6.5
7	6.2	5.9	7.2	5.5	6.5	7.2	5.7
8	4.5	4.3	5.6	4.1	5.0	5.8	4.5
9		3.1	4.4	2.9	4.0	4.7	3.5
10		2.2	3.5	2.1	3.1	3.9	2.8
11		1.5	2.8	1.4	2.4	3.2	2.1
12		0.9	2.2	0.8	1.8	2.6	1.6
13			1.7		1.4	2.2	1.1
14			1.3		1.0	1.8	0.7
15					0.6	1.4	
16						1.1	
18						0.7	
20							
22							
24							
26							
28							
30							
32							
25t hook	0.26t						
Parts of line	8	8	8	8	6	6	6
2 nd boom section	0%	50%	0%	100%	50%	0%	100%
3/4/5	0%	0%	25%	0%	25%	50%	25%

3. Single top mode load chart

Radius(m)	XGTC30L5-E single top performance table (counterweight of 11t, wide gauge, static lifting)														
	Boom Length(m)														
	10.8	14.7	16.7	18.6	20.6	22.5	24.5	26.4	28.4	30.3	32.3	34.2	36.2	38.1	42
3	3	3	3												
3.5	3	3	3												
4	3	3	3	3	3	3									
4.5	3	3	3	3	3	3	3								
5	3	3	3	3	3	3	3	3							
5.5	3	3	3	3	3	3	3	3	3						
6	3	3	3	3	3	3	3	3	3	3					
6.5	3	3	3	3	3	3	3	3	3	3	3				
7	3	3	3	3	3	3	3	3	3	3	3	3			
8	3	3	3	3	3	3	3	3	3	3	3	3	3		
9		3	3	3	3	3	3	3	3	3	3	3	3	3	
10		3	3	3	3	3	3	3	3	3	3	3	3	3	3
11		3	3	3	3	3	3	3	3	3	3	3	3	3	3
12		3	3	3	3	3	3	3	3	3	3	3	3	3	3
13			3	3	3	3	3	3	3	3	3	3	3	3	3
14			3	3	3	3	3	3	3	3	3	3	3	3	3
15				3	3	3	3	3	3	3	3	3	3	3	3
16				2.8	3	3	3	3	3	3	3	3	3	3	3
18					2.8	3	2.7	3	3	3	3	3	3	3	3
20						2.8	1.9	2.5	3	2.4	2.8	3	2.7	3	2.8
22							1.4	2.0	2.6	1.9	2.3	2.7	2.0	2.4	2.3
24								1.5	2.1	1.4	1.8	2.3	1.6	2.0	1.9
26									1.7	1.0	1.4	1.9	1.2	1.6	1.5
28												1.6	1.0	1.3	1.1
30												1.3	0.7	1.0	0.8
32															0.6
3t hook block	0.06t														
Parts of line	1														
2 nd boom section	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	50%	0%	100%	50%	100%
3/4/5	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	75%	100%	75%	100%	100%

Typical Operation Mode

4. Jib operation mode load chart

XGTC30L5-E jib performance table (counterweight of 11t, wide gauge, static lifting)			
42+9m			
Jib offset angle °	0	15	30
Boom angle	Capacity (t)	Capacity (t)	Capacity (t)
78	3	2.8	2.1
75	3	2.5	1.9
72	2.9	2.3	1.8
70	2.7	2.2	1.7
65	2.2	2	1.6
60	1.4	1.3	1.3
55	0.9	0.9	0.8
50	0.6	0.5	0.5
Parts of line	1		
3t hook block	0.06t		

5. Load chart for traveling with load

XGTC30L5-E boom performance table (counterweight of 11t, wide gauge, at the minimum stable travel speed)															
Radius(m)	Boom Length(m)														
	10.8	14.7	16.7	18.6	20.6	22.5	24.5	26.4	28.4	30.3	32.3	34.2	36.2	38.1	42
3	20.0	16.3	12.2												
3.5	18.5	16.3	12.2												
4	17.5	15.6	12.2	13.3	11.8	10.0									
4.5	16.7	15.0	12.2	12.4	11.7	9.9	9.1								
5	16.1	14.3	12.2	11.9	11.1	9.5	8.7	7.5							
5.5	15.1	12.8	11.8	11.7	10.6	9.0	8.4	7.3	5.4						
6	13.7	11.9	11.2	11.4	10.1	8.6	8.1	7.1	5.1	5.8					
6.5	11.9	10.5	10.0	10.0	9.6	8.2	7.6	6.8	4.9	5.6	5.4	4.0			
7	10.5	9.4	9.4	9.5	9.2	7.8	7.3	6.6	4.8	5.4	5.2	3.8	4.0		
8	8.6	7.7	8.2	7.6	7.8	7.3	5.9	6.1	4.6	5.2	5.0	3.7	4.0	3.2	
9		6.3	6.8	6.2	6.6	6.2	5.0	5.3	4.4	5.0	4.7	3.6	3.9	3.1	
10		5.2	5.8	5.1	5.5	5.3	4.4	4.6	4.2	4.3	4.4	3.5	3.8	3.0	2.8
11		4.4	4.9	4.3	4.7	4.6	3.7	4.0	4.0	3.8	3.9	3.2	3.7	2.9	2.7
12			4.2	3.6	4.0	4.0	3.1	3.5	3.7	3.4	3.5	3.1	3.2	2.8	2.6
13			3.7	3.0	3.5	3.5	2.7	3.0	3.3	2.9	3.1	2.9	2.9	2.6	2.5
14				2.5	3.0	3.1	2.3	2.7	3.0	2.6	2.7	2.8	2.6	2.5	2.4
15				2.1	2.6	2.8	2.0	2.3	2.6	2.2	2.5	2.6	2.3	2.4	2.1
16					2.3	2.5	1.8	2.1	2.4	2.0	2.2	2.4	2.1	2.2	2.0
18							1.4	1.6	1.9	1.6	1.8	2.0	1.7	1.8	1.5
20								1.3	1.6	1.2	1.4	1.7	1.4	1.5	1.4
22									1.3	1.0	1.2	1.4	1.0	1.2	1.2
24										0.7	0.9	1.2	0.8	1.0	1.0
26															
28															
30															
32															
25t hook	0.26t														
Parts of line	8	8	8	8	6	6	6	6	4	4	4	4	4	4	3
2 nd boom section	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	50%	0%	100%	50%	100%
3/4/5	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	75%	100%	75%	100%	100%

Typical Operation Mode

Description:

1. The total rated load given in the rated load charts are the maximum lifting capacity when the crane is set up on firm and level ground.
2. The total rated load includes the weight of the hook block and slings.
3. The working radius shown in the rated load charts is the radius when the load is lifted off ground, and it is the actual value including loaded boom deflection. Take boom deflection into consideration before beginning a lifting operation.
4. A lifting operation is permissible only when the wind force is below grade 5 (wind speed of 14.1 m/sec).
5. Before beginning lifting, the operator should know the weight of the load to be lifted and its working range, and should then select proper working conditions. Never operate the crane beyond the limit shown in the chart.
6. Do not extend the boom into areas of the load chart where the crane does not have capacity beyond the angles shown in the range diagrams, or tipping may occur.
7. In the load tables, working radius and boom length are indicated in m, lifting load in t, and boom angle in ° .
8. Rated lifting load in the chart refers to the values applied into a situation where two crawler beams are fully extended. It is not allowed to make slewing and lifting operations when crawlers are not fully extended.



XGTC30L5-E

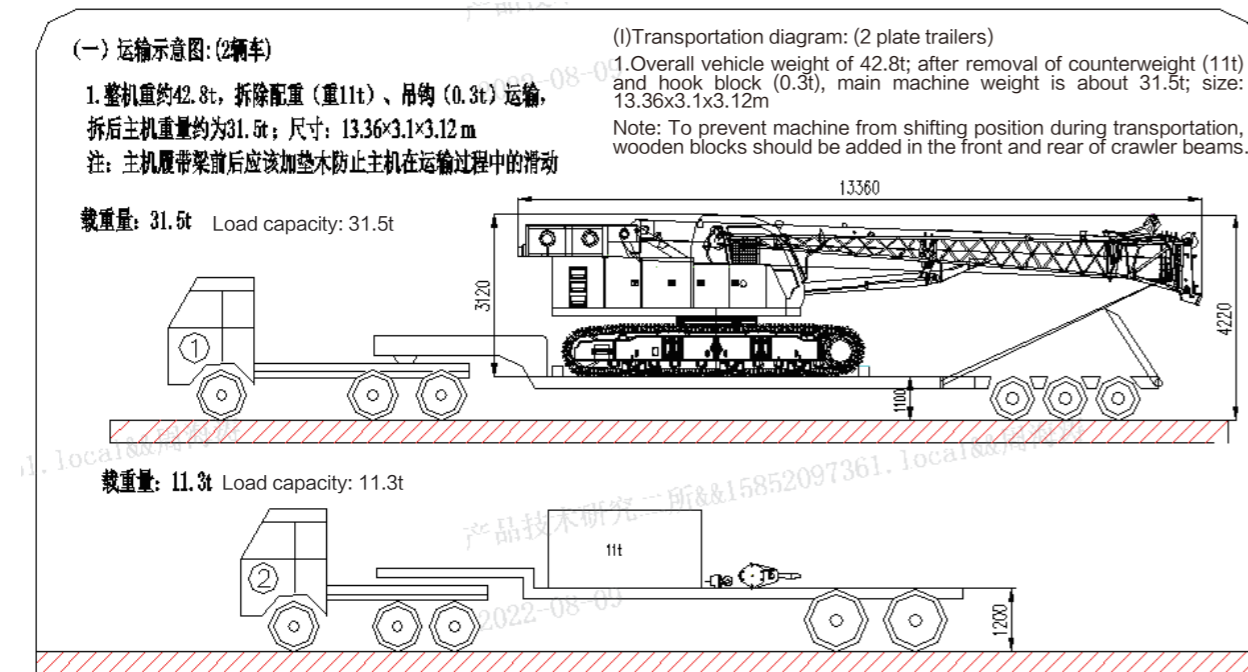
Telescopic Boom Crawler Crane

P21-22 Transportation

Transportation

Plan 1: Overall machine split transportation:

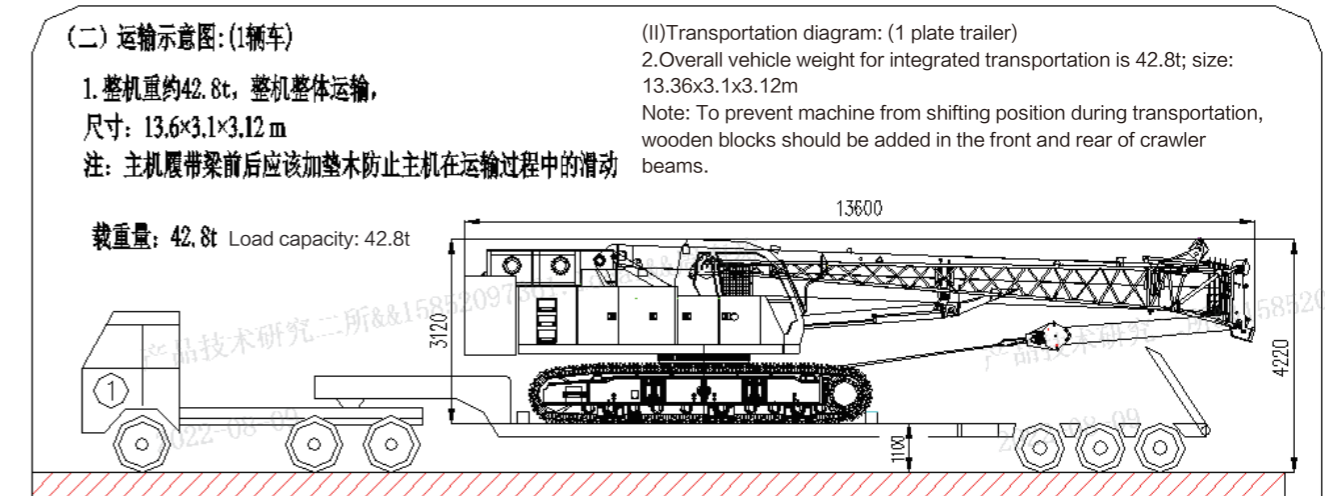
Counterweight and hook blocks are removed from main body for separate transportation; two carrier vehicles are required; see the diagram below:



Transportation

Plan 2: Overall machine integrated transportation:

The whole machine is transported by one carrier vehicle, see the diagram below:



Note: 1. The parameters above are theoretical design values. Due to inevitable slight manufacturing differences and continued improvement, specification and weight of some components or parts may vary. The data above is for reference only.

2. Carrier vehicle information is for reference only.

3. During transportation, main body (parts) must be fixed firmly.