Construction Equipment & Engineering

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XGTC130
Telescopic Crawler Crane

RONCO GROUP

1800CRANES
(08) 9459 6212
www.ronco.com.au
xcmg@ronco.com.au

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XGTC130 CRAWLER CRANE

Superstructure

Engine

Equipped with Weichai WP10 engine, the emission meets the requirements of non-road national III and European emission stage III (EU stage III). Rated power/speed: 247KW/1900rpm, with large power surplus, which is more suitable for muddy road conditions of foundation construction.

Hoisting mechanism

Description of hoisting mechanism:
Empty load hoisting speed: 0 ~ 135m/min。
Main and auxiliary wire rope diameter: 22mm，Single line pull is the largest in the industry，reaches 11.1t(auxiliary winch 10t).

Luffing mechanism

Description of luffing mechanism: single cylinder front support luffing
Boom raising time ⩽ 65s.

Slewing mechanism

The planetary reducer is driven by a motor and rotates with the external meshing gear of the slewing ring. It is matched with the newly designed slewing buffer valve to make the start and stop more stable.
Slewing ring: with strong bearing capacity, it can ensure the safety and stability of 360 ° slewing operation on the superstructure.
Slewing speed：0 ~ 1.7r/min

Electrical control system

The system adopts Weika integrated control system, which is composed of engine control, safety control, pilot control, load moment limiter control, auxiliary function control and so on.
The control system is equipped with gauge detection, virtual wall and remote management functions as standard, with intelligent products and high safety under extreme working conditions; CAN-bus transmission, the display interface query port status (monitors all bus sensors), which makes it easier to troubleshoot.
Winch and rear turntable monitoring system are equipped as standard to improve operation comfort and safety.

Hydraulic system

Electric proportional load sensitive main system + closed slewing system, equipped with independent high-power cooler and high-capacity hydraulic oil tank, which is more suitable for foundation construction conditions and ensure the stability of system working temperature.
Key accessories are imported first-line brands (Linde main pump + + Bucher balance valve), with high product reliability.

Hook block

Name	130t hook	75t hook	11t hook
Weight(Kg)	1015	653	265
Qty.	1	1	1

Counterweight

The turntable counterweight is composed of one 15t, two 5t and two 4.5t counterweight slabs; The turntable counterweight has four combinations. See the following table for details:

Turntable balance reassembly combination:

No.	Turntable counterweight (t)	Combinations of turntable counterweight
1	0	0 (counterweight not installed)
2	15	15
3	25	15+5+5
4	34	15+5+5+4.5+4.5

Undercarriage

Crawler track telescoping

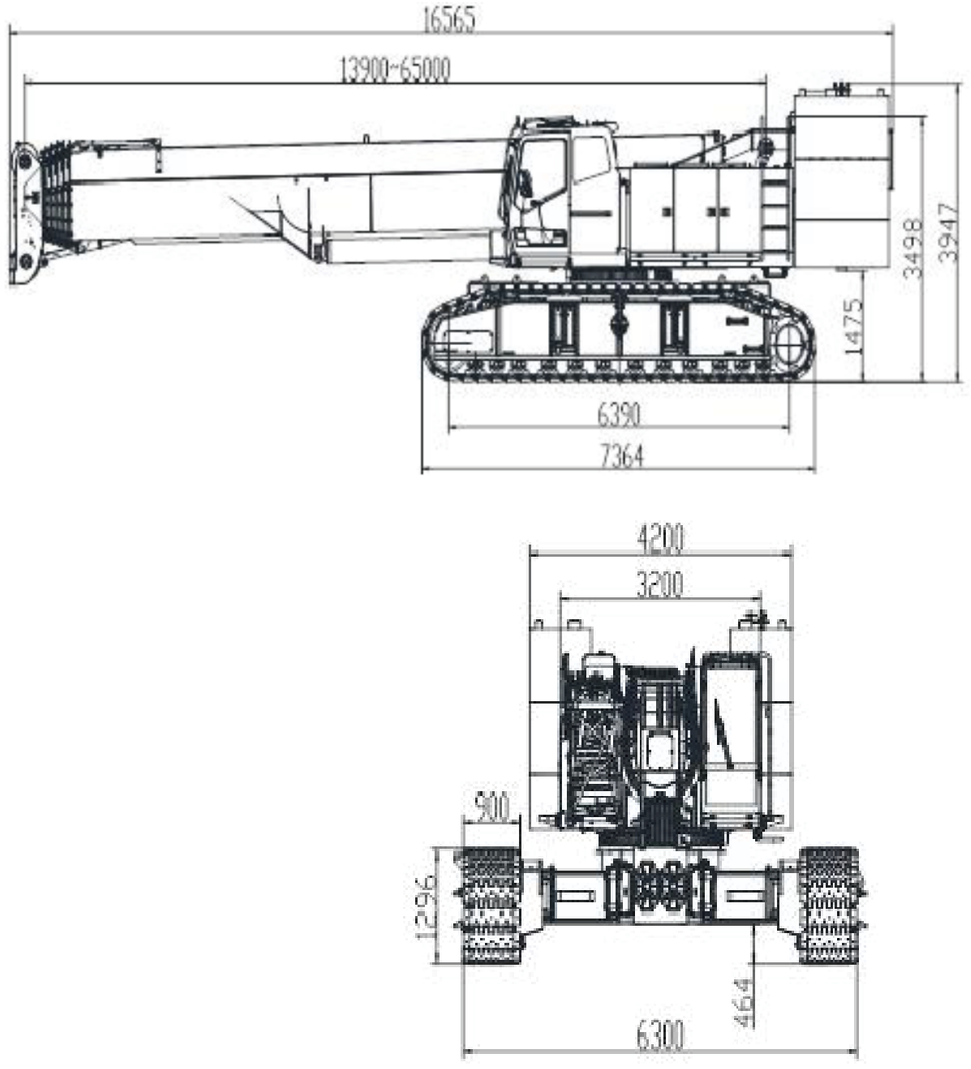
The expansion and contraction of the crawler track is realized through the track telescopic oil cylinder, which is convenient for transfer and narrow environment.

Travel device

The straight-line travelling and turning of the whole machine are realized by travel motor, reducer and driving wheel. The driving speed is 0 ~ 1.63km/h; The gradeability is 45%.

Overall crane dimension

XGTC130 crawler crane outline dimension



Notes: the maximum height of overall crane is 3.498m after turntable is removed.

Main Technical Parameters

Parameters			Unit	Data
Lifting performance	Max. rated lifting capacity	Main boom	t	130
		Jib	t	7.4
	Max. lifting moment		t.m	486
	Boom length	Main boom	m	13.9~65(six sections)
		Jib	m	11/18.5 (two sections)
		Longest combination	m	83.5 (65+18.5)
Weight	Crane weight		t	122.5
	Transport weight of basic crane (with crawler tracks, jib, hook)		t	51.6
	Ground pressure		Mpa	1.035
Dimension	Transport dimension of max. single unit (with crawler tracks)		m	16.6×3.99×3.498
	Outline dimension of the crane		m	16.6×6.3×3.947
	Min. slewing radius		m	5.3
Wire rope	Diameter/single line pull		mm/t	Φ22/11.1 (Aux. winchΦ22/10)
	Hoisting speed	Main winch	m/min	135
		Aux. winch	m/min	135
Speed	Slewing speed		r/min	1.7
	Travel speed		km/h	1.63
	Gradeability		%	45
Power system	Engine brand		/	Weichai
	Power/ rated revolutionspeed		kW/rpm	247/1900
	Max. torque/revolution speed		Nm/(r/min)	1550/ (1100~1400)
	Fuel oil tank		L	520
	Emminssion standard		/	Ⅲ

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XGTC130 CRAWLER CRANE

Lifting capacity tables in boom working conditions

Crawler tracks are fully extended, turntable counterweight 34t, car–body counterweight 10t, static crawler tracks, 360° working

Radius	Boom length (m)												
(m)	13.9	18.6			23.3			28			32.7		
3	130*												
3.5	125	68.8	98.0	98.0									
4	115	65.4	97.5	97.5	70.5	93.0	93.0						
4.5	105	62.4	95.0	95.0	67.6	89.0	89.0	71.3	83.0	83.0			
5	97.0	59.7	93.0	93.0	64.7	85.0	85.0	68.6	80.0	80.0			
6	81.0	54.7	78.6	77.7	60.5	78.0	77.1	64.0	73.0	73.0	53.1	66.5	70.0
7	67.1	50.5	64.8	64.0	56.2	64.8	63.5	59.8	64.8	64.2	48.3	62.8	64.0
8	56.7	47.4	55.1	54.3	52.5	55.1	53.7	56.4	55.1	54.5	44.4	57.0	55.4
9	48.8	44.3	47.6	46.9	49.6	47.6	46.3	49.8	47.6	47.0	40.6	49.5	47.9
10	42.5	41.5	41.8	41.0	43.7	41.8	40.5	43.9	41.8	41.2	37.5	43.6	42.0
12		34.2	33.1	32.4	35.0	33.1	31.9	35.2	33.1	32.6	32.8	34.9	33.2
14		27.7	26.5	25.6	28.7	26.5	25.1	28.9	26.5	25.9	28.8	28.4	26.8
16					23.5	21.4	20.0	23.7	21.4	20.8	23.8	23.3	21.7
18					19.6	17.5	16.2	19.8	17.6	17.0	19.9	19.5	17.9
20								16.8	14.6	14.1	17.0	16.5	14.9
22								14.5	12.3	11.7	14.6	14.2	12.6
24											12.7	12.3	10.7
26											11.1	10.7	9.2
Combination	00000	00001	00100	01000	00011	01100	11000	00111	02100	11100	00211	01111	11110
Parts of line	12	12			10			8			7		

Lifting capacity tables in boom working conditions

Crawler tracks are fully extended, turntable counterweight 34t, car–body counterweight 10t, static crawler tracks, 360° working

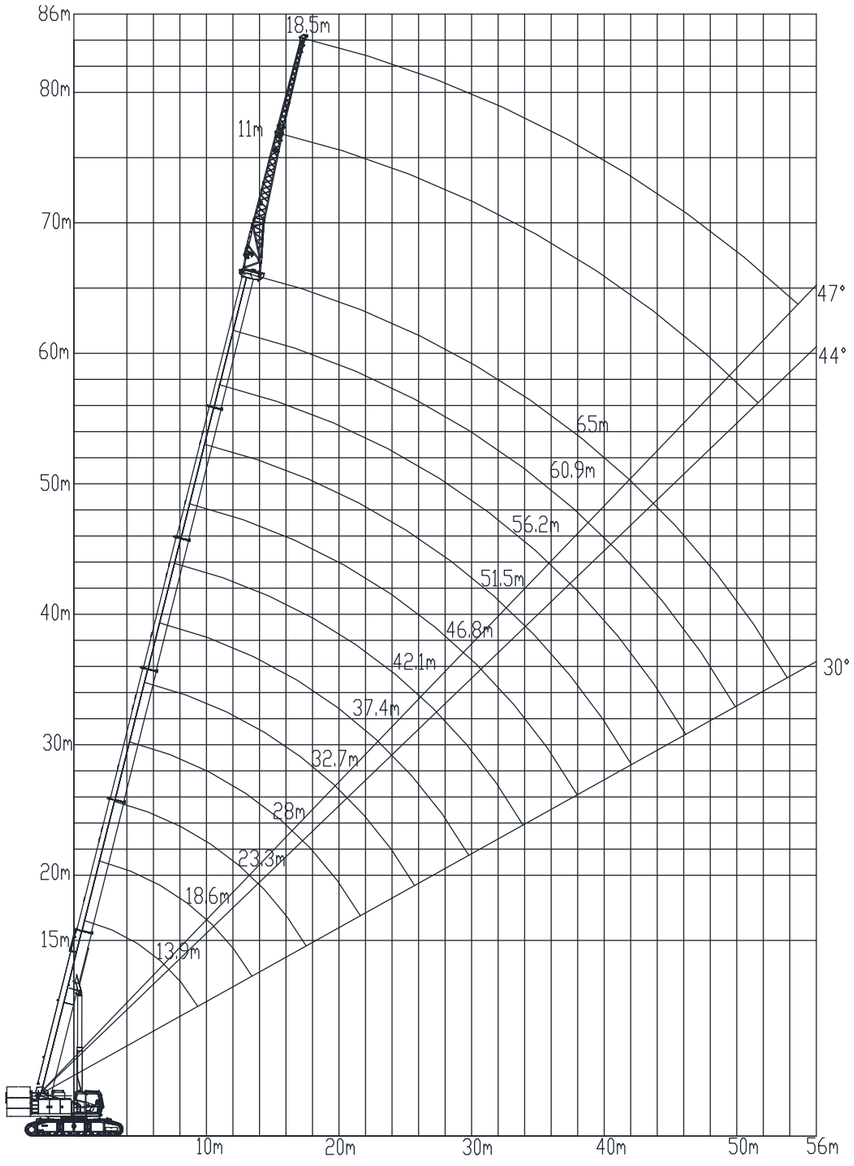
Radius	Boom length (m)											
(m)	37.4			42.1			46.8			51.5		
6												
7	56.4	63.0	58.4									
8	52.0	54.4	52.4	39.3	51.7	50.2						
9	48.0	47.6	45.8	37.1	45.4	44.9	29.2	38.3	40.0			
10	42.8	42.2	40.4	35.2	40.4	39.9	27.7	36.3	38.2	26.0	30.4	31.4
12	33.8	33.3	31.9	31.8	32.4	32.0	25.2	31.7	31.0	23.8	28.1	29.3
14	27.5	27.0	25.6	27.1	26.2	25.9	22.9	25.8	25.1	22.0	24.7	24.7
16	22.9	22.5	21.1	22.6	21.8	21.4	21.0	21.5	20.8	20.5	21.3	20.5
18	19.2	18.8	17.4	19.2	18.4	18.1	19.1	18.2	17.6	18.7	18.1	17.3
20	16.3	15.8	14.5	16.5	15.7	15.3	16.5	15.6	15.0	16.2	15.6	14.8
22	13.9	13.5	12.2	14.2	13.4	13.0	14.4	13.5	12.9	14.1	13.5	12.8
24	12.0	11.6	10.3	12.3	11.5	11.1	12.6	11.7	11.0	12.5	11.8	11.1
26	10.5	10.0	8.7	10.7	9.9	9.5	11.0	10.1	9.5	11.1	10.4	9.7
28	9.1	8.7	7.4	9.4	8.6	8.2	9.7	8.8	8.2	9.8	9.1	8.4
30	8.0	7.6	6.3	8.2	7.5	7.1	8.6	7.6	7.0	8.6	8.0	7.2
32				7.3	6.5	6.1	7.6	6.7	6.1	7.6	7.0	6.3
34				6.4	5.6	5.3	6.7	5.8	5.2	6.8	6.1	5.4
36							6.0	5.0	4.5	6.0	5.4	4.7
38							5.3	4.4	3.8	5.3	4.7	4.0
40										4.7	4.1	3.4
42										4.2	3.6	2.9
44										3.7	3.1	2.4
Combination	02111	11111	21110	11112	12111	21111	11122	12211	22111	11222	12221	22211
Parts of line	6			5			5			3		

Crawler tracks are fully extended, turntable counterweight 34t, car–body counterweight 10t, static crawler tracks, 360° working

Radius	Boom length (m)			
(m)	56.2		60.9	65
10				
12	22.3	24.0		
14	21.1	22.7	19.2	15.5
16	19.4	20.1	18.2	15.4
18	17.5	17.2	16.3	14.9
20	15.6	14.8	14.8	13.5
22	13.6	12.8	12.8	12.5
24	12.0	11.1	11.2	11.0
26	10.6	9.8	9.9	9.7
28	9.4	8.6	8.8	8.6
30	8.4	7.6	7.8	7.6
32	7.5	6.6	6.9	6.8
34	6.6	5.8	6.2	6.0
36	5.8	5.0	5.4	5.4
38	5.2	4.3	4.8	4.8
40	4.6	3.7	4.2	4.2
42	4.0	3.2	3.6	3.7
44	3.5	2.7	3.2	3.2
46	3.1	2.3	2.7	2.8
48	2.7	1.9	2.3	2.4
50			1.9	2.0
52			1.6	1.7
54				1.3
Combination	12222	22221	22222	33333
Parts of line	3		2	2

Note: Lifting capacity tables for various working conditions are provided for XGTC130 crawler crane, such as the lifting capacities under different counterweight combinations, narrow gauge mode of crawler tracks (360° working) and jib working conditions (different counterweight combinations).

lifting performance of fixed jib



Crawler tracks fully extended, turntable counterweight 34t, undercarriage counterweight 10t, crawler tracks are in static state, 360° working range.

Boom length m	65						
Fixed jib length m	11			18.5			
Radius/jib inset angle	0°	15°	30°	0°	15°	30°	Radius/jib inset angle
18	7.4						18
20	7.2	5.6					20
22	7.1	5.5	4.3	3.4			22
24	7	5.3	4	3.4	2.6		24
26	6.8	5.2	3.9	3.3	2.5		26
28	6.6	5.1	3.8	3.3	2.3	1.6	28
30	6.5	4.9	3.6	3.3	2.32	1.5	30
32	6.1	4.8	3.5	3.2	2.1	1.4	32
34	5.4	4.7	3.4	3.2	2	1.4	34
36	4.8	4.7	3.3	3	1.9	1.4	36
38	4.2	4.6	3.2	2.9	1.7	1.3	38
40	2	4	3.1	2.8	1.6	1.3	40
42	3.3	3.6	3	2.6	1.5	1.3	42
44	2.9	3.2	3	2.5	1.5	1.3	44
46	2.6	2.8	2.9	2.2	1.5		46
48	2.2	2.4	2.6	1.9	1.4		48
50	1.9	2.1	2.3	1.6	1.4		50
52	1.6	1.8	2	1.4	1.4		52
54			1.6		1.4		54
Boom combination	333333						Boom combination

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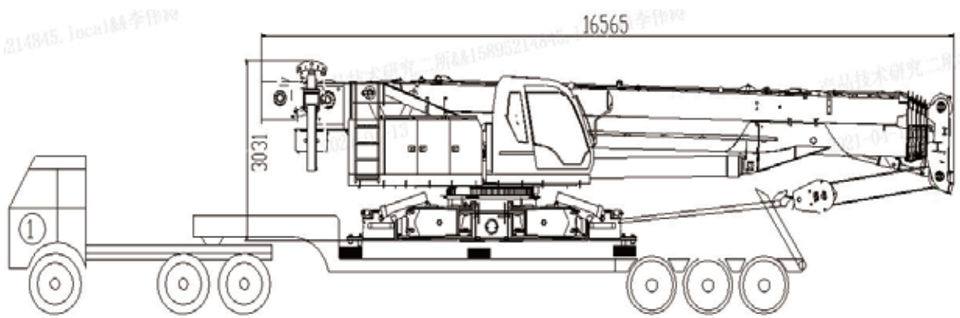
XGTC130

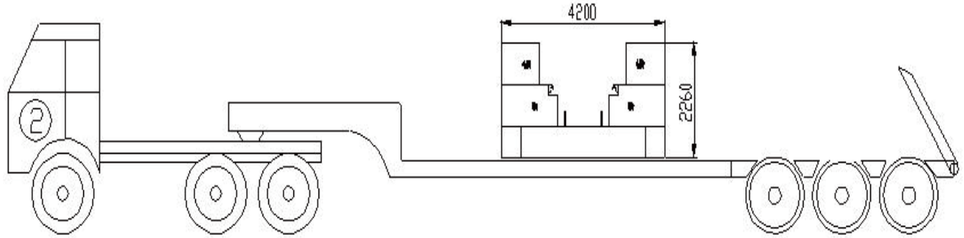
Transport plans

A. Transport plan I (crawler tracks are removed)

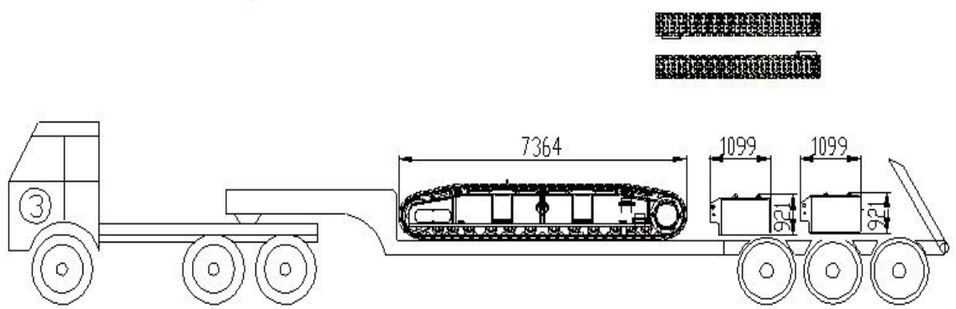
Transport vehicle 1: weight is 51.6t, including fixed jib and 75t hook.



Transport vehicle 2: weight is 34t (totally 5 counterweight blocks, 15t, 5t × 2, 4.5t × 2)

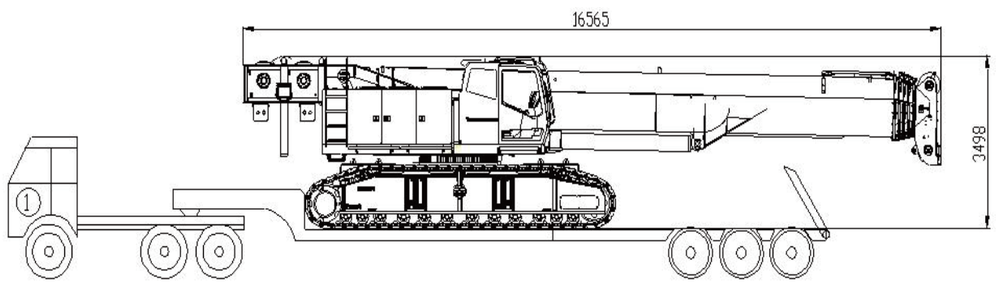


Transport vehicle 3: weight is 35.7t (crawler tracks 12.8t × 2, undercarriage counterweight 5t × 2)

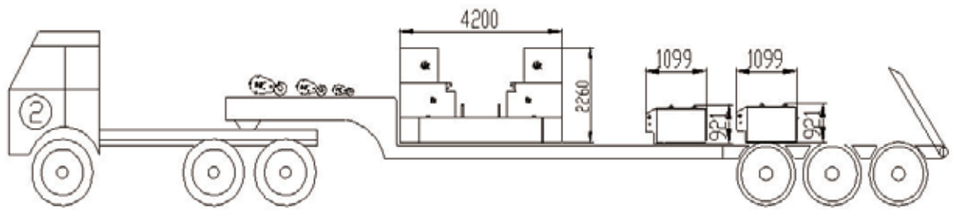


B. Transport plane II (crawler tracks are installed on the basic machine)

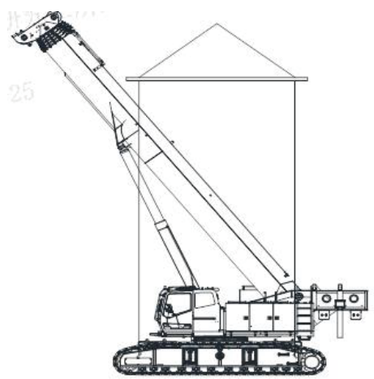
Transport vehicle 1: weight is 76.6t, including fixed jib.



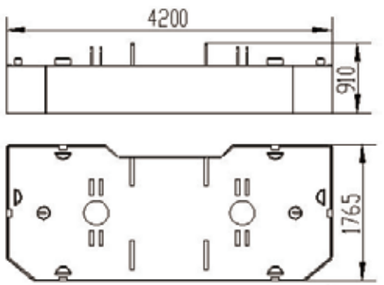
Transport vehicle 2: weight is 45.93t, including undercarriage counterweight 5t × 2, turntable counterweight 34t (15t, 5t × 2, 4.5t × 2), hook 1.93t (130t, 75t, 11t, totally 3 kinds).



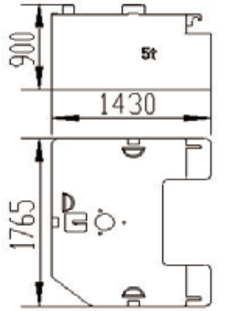
When the basic crane in the first transport vehicle is transported by a cargo ship rather than “ro-ro ship”, it can be lifted according to the following scheme:



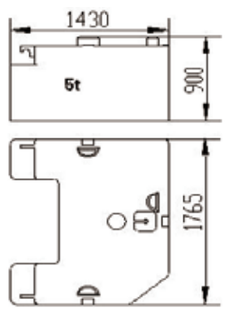
Notes: turntable counterweight transporting parameters are as follows:



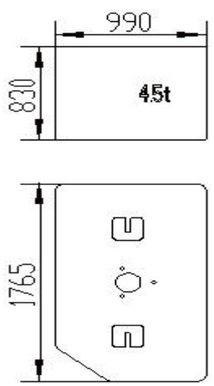
① Counterweight tray I, weight is 15t, one piece.



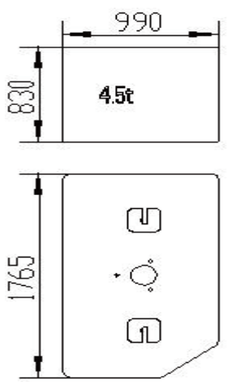
② Counterweight block II, weight is 5t, one piece.



③ Counterweight block III, weight is 5t, one piece.



④ Counterweight block IV, weight is 4.5t, one piece.



⑤ Counterweight block V, weight is 4.5t, one piece.

Memos