



# *TRUCK CRANE* *TC250A4*





LIUGONG

TC250A4

LIUGONG  
1958-2018

TC250A4

30400kg

起重臂下严禁站人

## Selling Points

### Superior lifting capacity

◎ Four-section U-shaped boom of large section and the fully extended length of 34 meters leading position among same types of products in the whole industry.

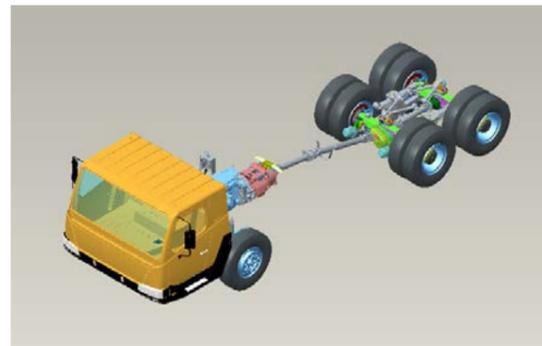
◎ The 6.2m transverse outrigger span with a fixed counterweight of 4.55t makes its lifting performance 5-10% higher than that of the products of same class.

◎ High-strength big box type frame adopted to improve anti-torsion capacity by 30%, bringing in more solid operation foundation.



### Strong and energy-saving heavy-duty chassis

◎ Cummins ISDe series high pressure common rail large torque euro III engine of 285 horsepower is configured.



◎ The combination of Fast 8-speed gearbox and single reduction axle features large speed ratio range and strong gradeability, which meets the requirements of low gradeability speed and high traveling speed.



## Selling Points

◎ The chassis with the power transmission optimization technology achieves the combined fuel consumption of 35 L/100 km.

◎ The max. traveling speed is 80km/h and max. gradeability is up to 40%.

### Stable and reliable operation

◎ The configuration of well-known hydraulic pump and winch variable motor satisfies the precision lifting demand. The minimum slewing speed and minimum winch speed is 0.1°/s and 1.5 m/min respectively.



◎ High reliability gear pump and load sensitive technology effectively reduce energy consumption and the heating of the hydraulic system.



◎ The valve post-compensation technology ensures smooth compound action.

### Humanized control system

◎ The configuration of load moment limiter, three-wire rope protector, hook height limiter, night vision leveling gauge, etc. provide the crane with comprehensive safety protection such as overload protection, over-wind protection, over-fall protection, tip-over protection, and driving protection.



◎ The operator's cab is equipped with the winch monitor for easy observation and operation.



◎ The reverse image system is set in the cab to make parking easier and avoid scratches.

◎ The engine acceleration switch is set in outrigger operation area, bringing easy operation.



◎ Air suspension type of the driver's seat can slide forwards and backwards and its angle can be changed, thus effectively reducing driver fatigue.

◎ The cab is equipped with foldable sleeper, thus making it more comfortable.

◎ The suspension seat with high strength special-shaped steel pipe structure reduces fatigue and improves comfort.



Overall Dimensional Drawing

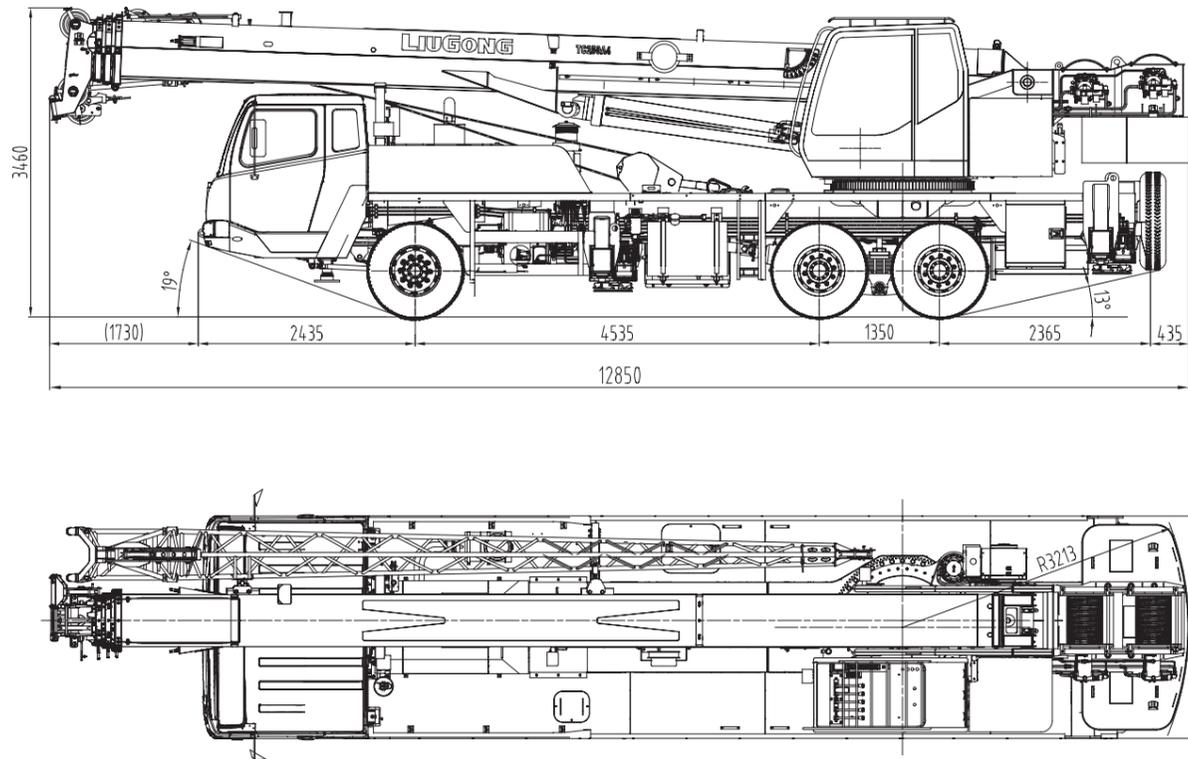


Table of Main Parameters

Type	Item	Unit	Parameter	
Dimension parameters	Overall length	mm	12850	
	Overall width	mm	2490	
	Overall height	mm	3460	
	Axle distance	mm	4535+1350	
	Tread	mm	2050/1840/1840	
Mass parameters	Dead weight in travel mode	kg	30400	
	Axle load	Axle load - 1	kg	6500
		Axle load - 2,3	kg	23900
Power parameters	Engine model		ISDe285 30	
	Rated power of engine	kw/(r/min)	210/2500	
	Rated torque of engine	N.m/(r/min)	970/1200-1700	
Driving parameters	Max. traveling speed	km/h	80	
	Min. turning diameter	mm	20000	
	Min. ground clearance	mm	260	
	Approach angle	°	19	
	Departure angle	°	13	
	Braking length(speed of 30km/h)	m	≤10	
	Max. gradeability	%	40	

Table of Main Parameters

Type	Item	Unit	Parameter	
Performance parameters	Max. lifting capacity	t	25	
	Min. rated range	m	3	
	Tail slewing radius of swingtable	mm	3213	
	Max. load moment of base boom	kN.m	1083	
	Max. load moment of fully extended boom	kN.m	592	
	Outriggers longitudinal span	m	5.6	
	Outriggers transverse span	m	6.2	
	Lifting height of basic boom	m	11	
	Lifting height of full-extended boom	m	34	
	Lifting height of full-extended boom + jib	m	42.7	
	Length of basic boom	m	10.7	
	Length of full-extended boom	m	34	
	Length of full-extended boom + jib	m	34+8.8	
	Jib offset angle	°	0,15,30	
	Working speed	Boom luffing time	Full lifting/descending time of boom	s
Boom extension time		Full extension/retraction time of boom	s	55/60
Max. swing speed		r/min	2.4	
Lifting speed of single rope		Main winch (no load)	m/min	130
		Auxiliary winch (no load)	m/min	130

Load Chart

Unit: kg

Radius (m)	Main boom(m)					
	Outrigger fully extended; working in rear and side direction, fifth outrigger retracted; working in all directions with fifth outrigger extended.					
	10.7	15.36	20.02	24.68	29.34	34
	8	6	6	4	3	3
3	25000					
3.5	25000	18000	16000			
4	24700	18000	16000	11000		
4.5	22200	17500	16000	11000		
5	20200	17500	16000	11000		
5.5	18700	17500	15200	11000	8000	
6	18050	16800	14300	10700	8000	
7	13950	14200	12500	9500	8000	7000
8	11250	11450	11400	8800	7500	6700
9		9500	9450	8200	7100	6200
10		7950	7900	7500	6500	5700
12		5800	5750	5900	5600	4800
14			4400	4500	4500	4200
16			3500	3550	3600	3700
18				2850	2850	2850
20				2300	2350	2650
22					1900	1950
24					1600	1600
26					1300	1300
28						1000
30						800

Load Chart

Load Chart

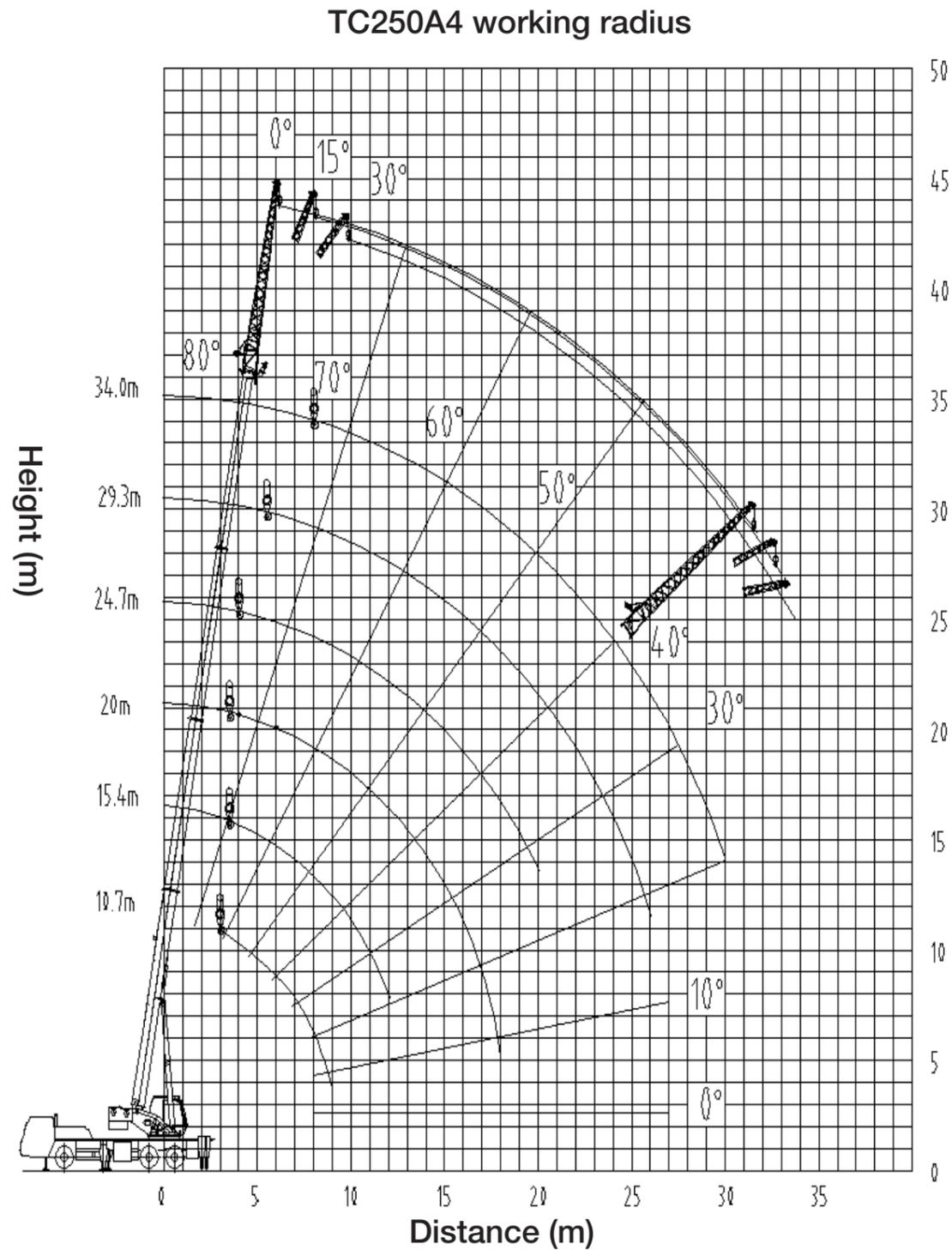
Unit: kg

Main boom(m)						
Radius (m)	Outrigger fully extended; working in rear and side direction,fifth outrigger retracted; working in all directions with fifth outrigger extended.					
	10.7	15.36	20.02	24.68	29.34	34
	8	6	6	4	3	3
3	25000					
3.5	25000	18000	16000			
4	24700	18000	16000	11000		
4.5	22200	17500	16000	11000		
5	18400	17500	16000	11000		
5.5	15150	15550	15200	11000	8000	
6	12700	13100	13700	10700	8000	
7	9400	9800	10300	9500	8000	7000
8	7250	7600	8100	8500	7500	6700
9		6100	6600	7000	7100	6200
10		4950	5450	5800	6000	5700
12		3350	3850	4200	4350	4450
14			2800	3100	3250	3350
16			2050	2400	2500	2550
18				1850	1900	2000
20				1400	1490	1550
22					1100	1200
24					840	900
26					600	650
28						450

Outrigger fully extended; working in rear and side direction,fifth outrigger retracted; working in all directions with fifth outrigger extended.			
Main boom 34+Jib 8.8 (m)			
Jib offset angle	0°	15°	30°
Angle of boom	Lifting capacity(kg)		
80°	3000	2600	1900
76°	2900	2400	1750
73°	2800	2200	1700
70°	2500	2100	1600
65°	2150	1800	1500
60°	1600	1450	1300
55°	1100	1050	950
50°	800	750	700

Outrigger fully extended; working in rear and side direction,fifth outrigger retracted; working in all directions with fifth outrigger extended.			
Main boom 34+Jib 8.8 (m)			
Jib offset angle	0°	15°	30°
Angle of boom	Lifting capacity(kg)		
80°	3000	2600	1900
76°	2900	2400	1750
73°	2800	2200	1700
70°	2150	1800	1600
65°	1250	1200	1200
60°	790	730	680

## ■ Lifting Height Curve



## ■ Configuration Information

### Superstructure

#### Turntable structure

The front and back section box type structure is made of high strength steel plate material. The single-sided channel steel is strengthened and the anti-torsion capacity increases greatly. Using single row ball style slewing support, anti-tip over capacity and stability of the whole machine enhanced significantly.

#### Hydraulic system

Multiple gear pump, high voltage variable motor, with load-sensitive hydraulic system ensure system energy saving and flow distribution balance. Set pressure measuring joint at hydraulic system to improve the use, maintenance and service performance of products.

#### Control system

The movements of superstructure are controlled by two pilot hydraulic/manual control handles in the cab. The engine speed is controlled by the electronic accelerate pedal and the control panel is provided with a raised plate switch.

#### Hoist system

Plunger type high speed hydraulic motor drives the hoisting reducer with double broken rope groove, provides dynamic hoisting power. Normally closed hoisting brake and hoisting balance valve are equipped to prevent gravity loss of the hook.

#### Luffing system

Self-weight or hydraulic power drop luffing system equipped with luffing balance valve and secondary overflow valve, improving the stability of the drop luffing operation.

#### Slewing system

Plunger type high speed hydraulic motor drives the rotary reducer. Adopted hydraulic proportional speed control, and its unique rotary buffer design makes open smoothly and the brake more stable.

#### Cab

The cab is made of corrosion-resistant steel plate and equipped with ergonomic devices such as safety glass, full-coverage softening interior, panoramic skylight and adjustable seats. Single cooling air conditioner and electric wiper are equipped to ensure more comfortable and easy operation. 7 inch display screen is adopted to ensure easy reading of the hoisting operation data of all working conditions at a glance.

#### Safety device

Equipped with high-precision well-known brand load moment limiter, long angle sensor, height limiter, three-loop protector, hydraulic balance valve, outrigger hydraulic lock and other protective devices.

#### Boom system

Four-section U-shaped boom made of high-strength welded structural steel, with single cylinder and rope row telescoping mode adopted. Basic boom length is 10.7m, and fully extended boom length is 34m. Jib length is 8.8m and designed of truss structure. Jib offset angle: 0, 15, 30 degrees.

#### Counterweight

The fixed counterweight 4.55T.

## Configuration Information

### Chassis system

#### Cab

Panoramic and spacious cab with full coverage of softening interior. The seat is equipped with pneumatic shock absorber, which can slide forward and backward, its angle can be changed and effectively reduce driver fatigue. The folding sleeper design is spacious, comfortable and practical. Configured with standard air-conditioner, radio and USB music interface. The cab and the control room interior dashboard are ergonomically arranged in the far and near position to make the operator feel more comfortable and convenient.

#### Chassis

6 x 4 mode, Liugong self-made high strength three-axle chassis with DCEC ISDe285 30 engine, Fast 8-speed gearbox.

#### Frame

The widened frame of rectangular cross section structure, compared with the groove frame, reduce deadweight by 10% and enhance its anti-torsion capability by 30%.

#### Outrigger

H-type outrigger with 4-point support made of high-strength steel plate material. Transverse and longitudinal span is 6.2 m \* 5.6 m, and the transverse telescopic of outriggers are fully hydraulic controlled, which is stable and easy to operate.

#### Electrical system

The 2 x 12V free maintenance battery is equipped with a mechanical power switch, which enables manual cut-off of the entire power supply.



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