

 **LIUGONG**

# LTC250V5 CRANE

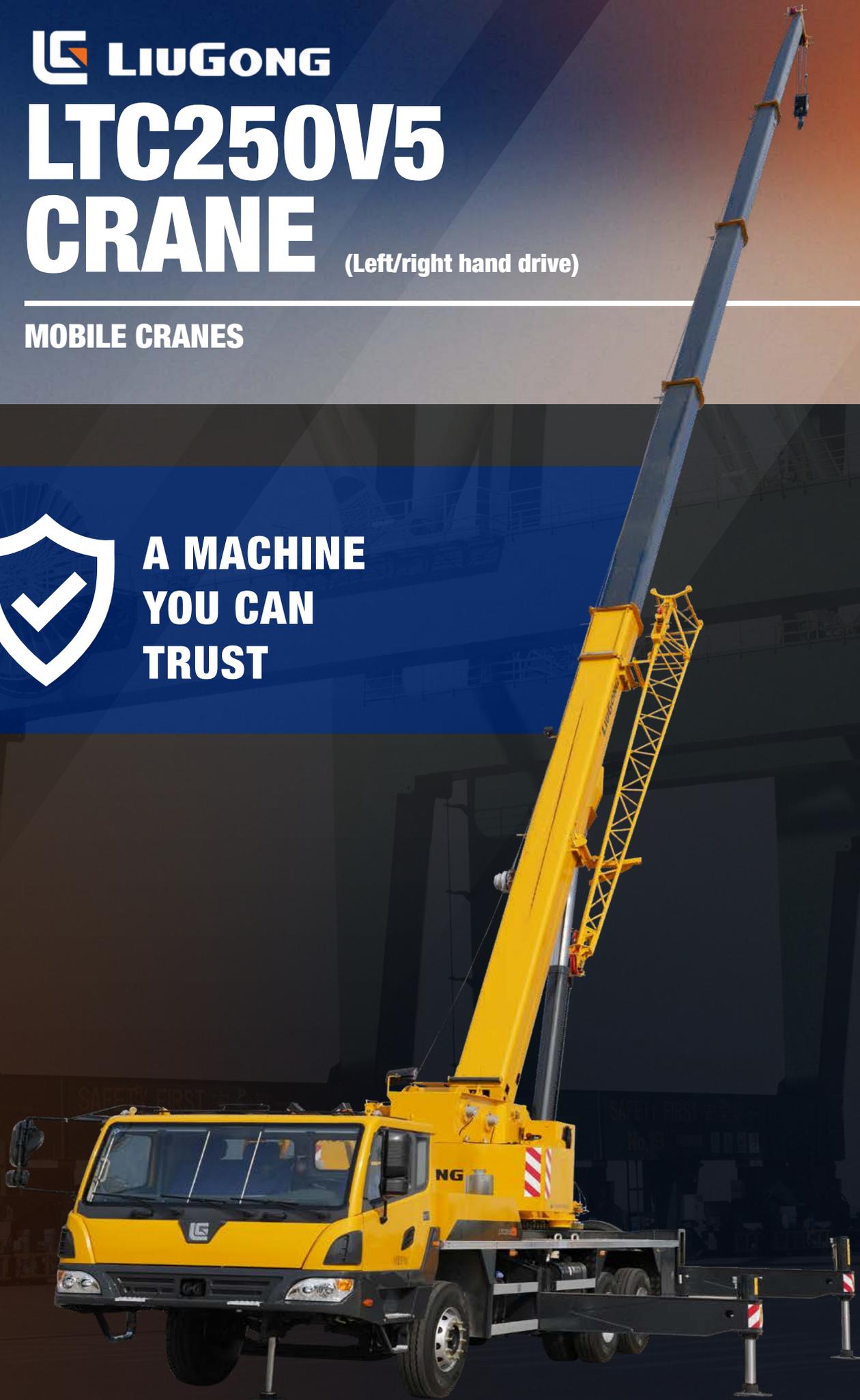
(Left/right hand drive)

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**MOBILE CRANES**



**A MACHINE  
YOU CAN  
TRUST**



**TOUGH WORLD. TOUGH EQUIPMENT.**

# RAISING THE STANDARD.

## A TEAM YOU CAN TRUST

Challenging projects need trusted strength and stability to get the job done. LiuGong has over 60 years' experience making cranes that deliver the most powerful lifting capacity combined with premium safety features and the benchmark for reliability.

We have earned a global reputation for designing the toughest machines and our mobile cranes share this design DNA. They are designed, built and supported by a team you can trust to put your performance first.

## WE PUT YOU FIRST

Our customers tell us that they want mobile cranes that are easy to use, easy to maintain and easy to operate. With optimized safety and stability and with proven reliability and quality to work in the most demanding conditions. You can trust our cranes to deliver all this and more.



### 100% SAFETY COMPLIANT

You can choose LiuGong with confidence. Our mobile cranes are quiet, clean and conform to the latest environmental legislation standards for emissions.

## LET'S PROVE IT



**MORE THAN 60 YEARS EXPERIENCE MAKING CRANES**



**10% STRONGER LIFTING CAPACITY THAN COMPETITORS**



**360° 360 DEGREE CAB VIEW**



**10,000 HOURS BETWEEN OVERHAULS**



**2-5 DECIBELS QUIETER THAN COMPETITOR MODELS**

# TAKE A CLOSER LOOK.



## YOUR SAFETY IS OUR PRIORITY

Your safety is paramount to us, so you can trust our mobile cranes to create the safest working environment.

- 1 Stability is a key safety factor. Our high-strength anti-torsion frame provides the highest levels of stability and load bearing capacity no matter how tough the conditions.
- 2 Our ergonomic, high-visibility cab (Left-hand and right-hand drive options) with tempered window glass and anti-corrosion steel provides a 360 degree view of the jobsite, protecting the operator and co-workers from harm. Our cabs are safe and easy to access, have a spacious working environment and provide the highest levels of comfort.
- 3 Our machines have been designed to work safely day and night, 24/7. Onboard technology such as LMI, three-circle projector, height limiter and night vision level provide all-round safety protection from overload, over-winding, over-discharge and anti-tilt. To further enhance safety our cranes are also equipped with reversing camera imagery and winch monitors.



## EASY TO MAINTAIN

Our aim is to make maintenance as fast and easy as possible to reduce unproductive downtime to a minimum.

- 4 With easy access to maintenance and service areas we've made checks and repairs fast and easy.
- 5 Our mobile cranes are powered by world famous Cummins engines renowned for easy maintenance and low running costs. With up to 10,000 hours between overhauls you can enjoy unmatched productivity.



## TOTAL RELIABILITY

Trust is about relying on your mobile crane to deliver optimum performance - every time. We design performance and reliability in from the very start.

- 6 With a proven fuel-efficient, low noise and low maintenance Cummins engine combined with a FAST 9-Shift gearbox, you can rely on our mobile cranes to travel from site to site with speed, efficiency and comfort.
- 7 LiuGong designed hydraulics set the benchmark for reliability. Benefitting from a fixed displacement pump and a load sensing post compensation valve, we deliver consistently stable operation, smooth compound action and excellent micro-motion performance.
- 8 Our intelligent, electronically controlled chassis system protects the lifting operation and reduces power consumption improving uptime and efficiency.



## UNMATCHED LIFTING PERFORMANCE

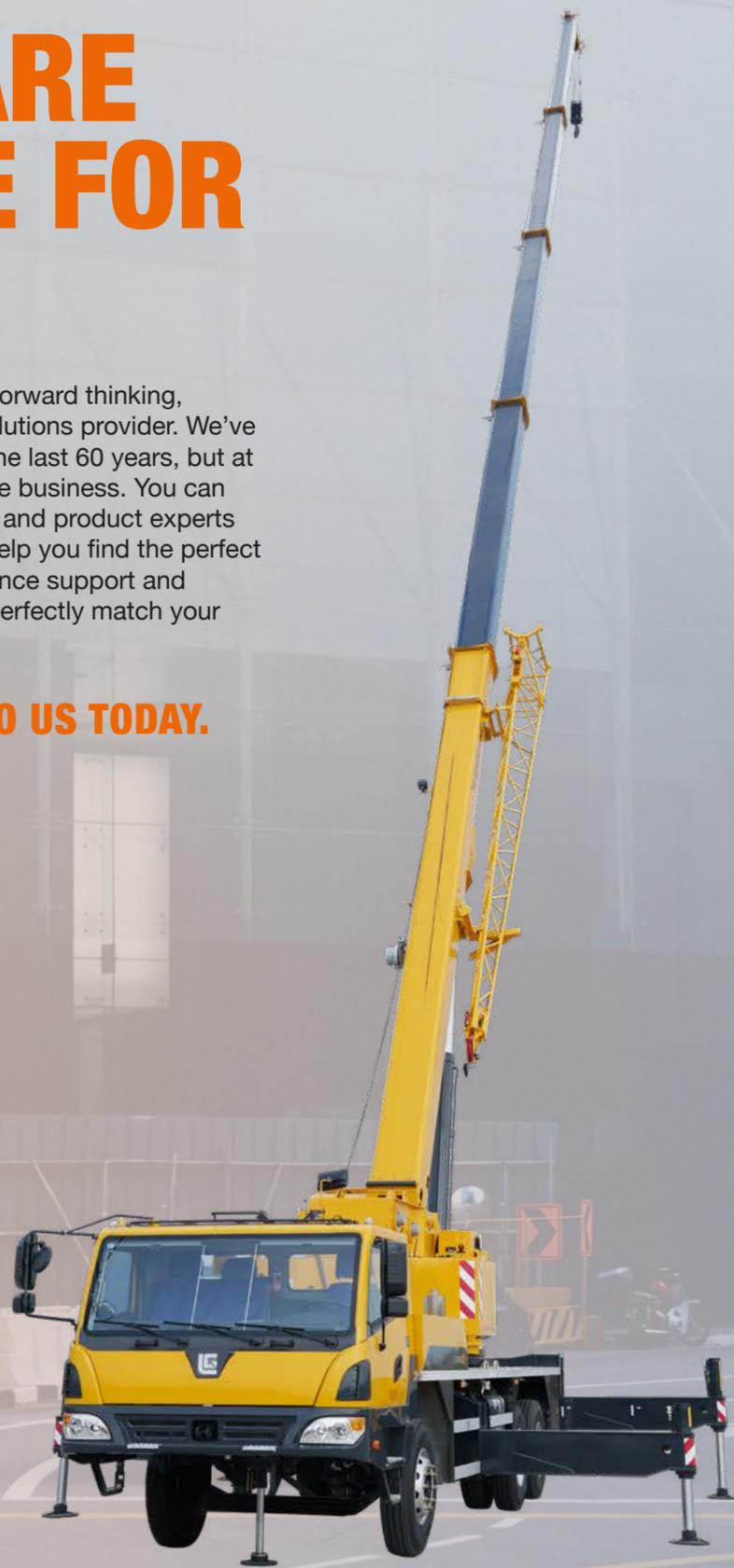
When it comes to lifting performance we deliver the perfect combination of stability, power, hydraulic performance and control.

- 9 Our crane adopts 5 U-shaped section of main booms, new single-board boom structure, and increases the overlap amount of each boom to make the loading capacity of the boom stronger. The maximum lifting torque reaches 1,088 kN·m. LiuGong cranes outperform the industry average by 10% in most boom configurations.
- 10 The full extension main boom is 41 m in length, with 8 m jib, making the working radius larger.
- 11 6,420 mm x 5,500 mm super-large outrigger span is adopted, with a 7 t fixed counterweight to ensure the safety and stability of the operation.

# WE ARE HERE FOR YOU.

LiuGong is a global, forward thinking, customer focused solutions provider. We've come a long way in the last 60 years, but at heart, we are a people business. You can trust our sales teams and product experts to work with you to help you find the perfect equipment, maintenance support and financial solution to perfectly match your operational needs.

 **TALK TO US TODAY.**



## SPECIFICATIONS LTC250V5 MOBILE CRANE

CATEGORY	ITEM		UNIT	PARAMETER	
Dimension	Overall length		mm	12,500	
	Overall width		mm	2,575	
	Overall height		mm	3,445	
	The axle distance		mm	4,635+1,350	
Weight	The total weight during driving		kg	32,000	
	Axle load	The front	kg	6,600	
		The rear	kg	12,700/12,700	
Engine	Engine model		\	ISDe285 30 (EU Stage III)	
	Rated engine power		kW/(r/min)	210/2,500	
	Rated engine torque		N·m/(r/min)	970/1,200-1,700	
Travel	Max.travel speed		km/h	80	
	Min. turning diameter		m	21	
	Min. ground clearance		mm	250	
	Approach angle		°	20	
	Departure angle		°	14	
	The braking distance (speed 30km/h)		m	≤8.5	
Main performance	Max. rated lifting capacity		t	25	
	Min. rated range		m	3	
	Swing radius		mm	3,315	
	Max. lifting torque	Basic boom	kN·m	1,088	
		Longest main boom	kN·m	676	
	Outrigger span	Transverse	m	6.42	
		Longitudinal	m	5.5	
	Lifting height	Basic boom	m	11.78	
		Max. main boom	m	42	
		Max. main boom+Jib	m	50	
	Boom length	Basic boom	m	10.54	
		Max. main boom	m	41	
Max. main boom+Jib		m	41+8		
Jib offset angle		°	0, 15, 30		
Working speed	Boom luffing time	Full lifting/descending time of boom	s	35/50	
	Boom extension time	Full extension/retraction time of boom	s	80/80	
	Max. swing speed		r/min	2.4	
	Max. lifting speed	Main winch	No load	m/min	130
		Auxiliary winch	No load	m/min	130

# LTC250V5 LOAD CHART

UNIT: kg					
Working radius (m)	Main boom(m)				
	Outrigger fully extended to 6.42 m, rear/side operation. With fifth outrigger supported, the machine can fully swing by 360°				
	10.5	16.3	22	27.7	33.4
3	25,000				
3.5	25,000	14,500			
4	24,500	14,500	14,500		
4.5	23,000	14,500	14,500		
5	22,200	14,500	14,500	10,000	
5.5	20,000	14,500	14,500	10,000	
6	18,000	14,500	14,500	10,000	
6.5	16,500	14,500	14,500	9,900	8,000
7	15,200	14,500	14,500	9,300	7,700
8	12,800	13,000	12,400	8,300	7,200
9		11,600	11,300	7,500	6,500
10		9,700	10,100	6,800	5,900
11		8,200	8,600	6,200	5,500
12		7,100	7,500	5,700	5,000
13		6,100	6,600	5,300	4,600
14		5,400	5,800	4,900	4,300
15			5,100	4,500	4,000
16			4,600	4,200	3,700
18			3,700	3,700	3,300
20				3,200	2,900
22				2,700	2,800
24				2,200	2,300
26				1,800	2,000
28					1,600
30					1,400
I	0	0	0	0	0
II	0	25%	50%	75%	100%
Rate	8	5	5	4	3

UNIT: kg					
Working radius (m)	Main boom(m)				
	Outrigger fully extended to 6.42 m, rear/side operation. With fifth outrigger supported, the machine can fully swing by 360°				
	12.4	18.2	23.9	29.6	35.3
3	25,000				
3.5	25,000				
4	24,500	14,500			
4.5	23,000	14,500	14,500		
5	22,200	14,500	14,500		
5.5	20,000	14,500	14,500	10,000	
6	18,000	14,500	14,500	10,000	
6.5	16,500	14,500	14,500	10,000	7,300
7	15,000	14,500	14,300	9,700	7,700
8	12,700	13,300	13,000	8,700	7,200
9	10,400	11,500	11,800	7,900	6,700
10	8,600	9,500	9,900	7,200	6,100
11		8,100	8,400	6,600	5,600
12		6,900	7,300	6,100	5,200
13		6,000	6,400	5,600	4,800
14		5,200	5,600	5,200	4,500
15		4,600	4,900	4,900	4,100
16		4,000	4,400	4,500	3,900
18			3,500	3,700	3,400
20			2,800	3,100	3,100
22			2,300	2,500	2,700
24				2,000	2,200
26				1,700	1,800
28					1,500
30					1,200
I	25%	25%	25%	25%	25%
II	0	25%	50%	75%	100%
Rate	8	5	5	3	3

# LTC250V5 LOAD CHART

UNIT: kg					
Working radius (m)	Main boom(m)				
	Outrigger fully extended to 6.42 m, rear/side operation. With fifth outrigger supported, the machine can fully swing by 360°				
	14.4	20.1	25.8	31.5	37.2
3	25,000				
3.5	24,500				
4	23,000	14,200			
4.5	22,300	14,200	13,600		
5	20,600	14,200	13,600		
5.5	19,500	14,200	13,600		
6	18,000	14,200	13,600	10,000	
6.5	16,300	14,200	13,600	10,000	
7	14,800	14,200	13,600	10,000	
8	12,500	13,200	13,000	9,000	7,200
9	10,350	11,200	11,700	8,200	6,800
10	8,500	9,300	9,700	7,500	6,300
11	7,050	7,800	8,300	6,900	5,800
12	5,950	6,700	7,100	6,400	5,300
13		5,800	6,200	5,900	5,000
14		5,000	5,450	5,500	4,700
15		4,400	4,800	5,000	4,300
16		3,900	4,300	4,500	4,100
18		3,000	3,400	3,600	3,600
20			2,700	2,900	3,100
22			2,150	2,400	2,500
24				1,950	2,100
26				1,550	1,750
28				1,250	1,400
30					1,150
I	50%	50%	50%	50%	50%
II	0	25%	50%	75%	100%
Rate	8	5	4	3	3

UNIT: kg					
Working radius (m)	Main boom(m)				
	Outrigger fully extended to 6.42 m, rear/side operation. With fifth outrigger supported, the machine can fully swing by 360°				
	16.3	22	27.7	33.4	39.1
3	23,000				
3.5	21,800				
4	20,000	14,200			
4.5	19,500	14,200			
5	18,500	14,200	13,600		
5.5	18,000	14,200	13,600		
6	17,300	14,200	13,600		
6.5	16,300	14,200	13,500	10,000	
7	14,800	14,000	12,700	10,000	
8	12,500	13,000	11,500	9,200	7,000
9	10,200	11,000	10,300	8,400	6,800
10	8,400	9,100	9,400	7,700	6,400
11	6,900	7,700	8,100	7,100	5,900
12	5,850	6,600	7,000	6,600	5,500
13	4,950	5,700	6,100	6,200	5,100
14	4,200	4,900	5,300	5,600	4,800
15		4,300	4,700	4,950	4,500
16		3,750	4,100	4,400	4,200
18		2,900	3,250	3,500	3,700
20		2,200	2,600	2,850	3,000
22			2,050	2,300	2,450
24			1,600	1,850	2,000
26			1,200	1,450	1,600
28				1,150	1,300
30				850	1,050
I	75%	75%	75%	75%	75%
II	0	25%	50%	75%	100%
Rate	8	5	4	3	3

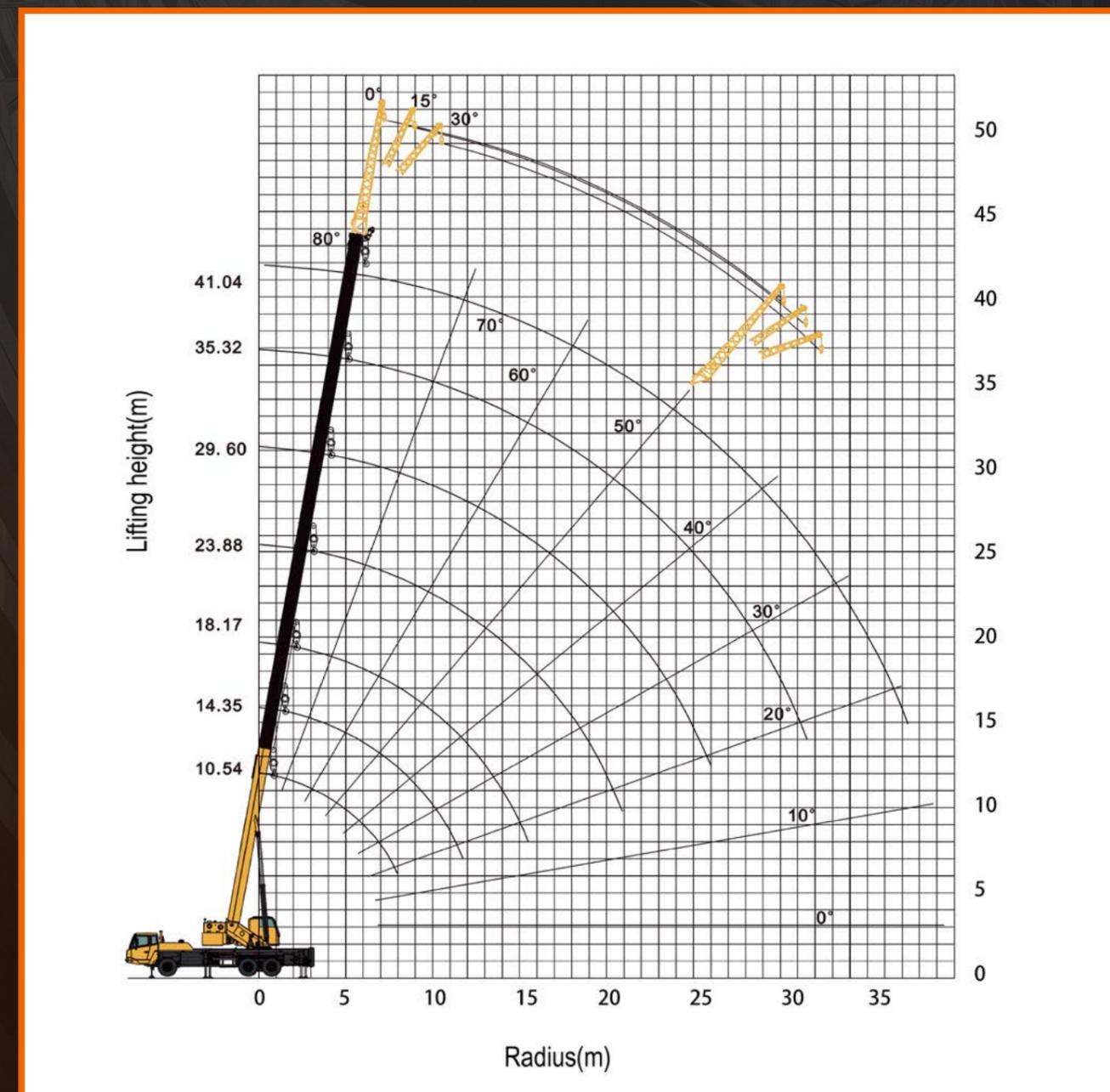
# LTC250V5 LOAD CHART

UNIT: kg					
Working radius (m)	Main boom(m)				
	Outrigger fully extended to 6.42 m, rear/side operation. With fifth outrigger supported, the machine can fully swing by 360°				
	18.2	23.9	29.6	35.3	41
3	14,500				
3.5	14,500				
4	14,500	14,000			
4.5	14,500	14,000			
5	14,500	14,000			
5.5	14,500	14,000	13,600		
6	14,500	14,000	13,600		
6.5	14,500	14,000	12,800		
7	14,500	13,500	12,200	9,700	
8	12,300	12,200	10,900	9,300	
9	10,150	10,900	9,900	8,600	6,600
10	8,300	9,000	8,900	7,900	6,300
11	6,900	7,600	8,050	7,200	6,000
12	5,800	6,500	6,900	6,700	5,600
13	4,900	5,550	6,000	6,200	5,200
14	4,150	4,800	5,200	5,500	4,900
15	3,500	4,200	4,600	4,850	4,600
16	3,000	3,650	4,000	4,300	4,300
18		2,800	3,150	3,400	3,600
20		2,100	2,500	2,700	2,900
22		1,500	1,900	2,200	2,350
24			1,500	1,700	1,900
26			1,100	1,350	1,550
28				1,050	1,200
30				750	950
I	100%	100%	100%	100%	100%
II	0	25%	50%	75%	100%
Rate	6	5	4	3	3

UNIT: kg			
Outrigger fully extended; without the fifth outrigger, rear/side operation; With fifth outrigger supported, the machine can fully swing by 360°			
Main boom41+ JIB8 (m)			
Installation angle	0°	15°	30°
Main boom angle of gradient	Lifting Capacity		
80°	2,800	2,400	1,700
76°	2,700	2,200	1,600
73°	2,600	2,000	1,500
70°	2,300	1,900	1,400
65°	1,900	1,700	1,300
60°	1,500	1,400	1,200
55°	1,100	1,000	900
50°	750	700	700

UNIT: kg			
Outrigger half extended to 4.5 m, without fifth outrigger, rear/side operation; With fifth outrigger supported, the machine can fully swing by 360°			
Main boom41+ JIB8 (m)			
Installation angle	0°	15°	30°
Main boom angle of gradient	Lifting Capacity		
80°	2,800	2,400	1,700
76°	2,700	2,200	1,600
73°	2,300	2,000	1,500
70°	1,700	1,600	1,400
65°	1,000	900	900
60°	500	500	500
55°			
50°			

# LTC250V5 LIFTING LOAD CHART



- Note:
- The lifting capacity specified in the list refers to the rated lifting capacity of the crane on solid plane, with all horizontal and vertical legs stretched and the complete crane at leveling state.
  - The lifting capacity in the table refers to the weight and lifting hooks and sling. The weight of main lifting hook is 260kg and the weight of secondary lifting hook is 55 kg.
  - The amplitude specified in the table refers to the actual amplitude after the boom elastic deformation when lifting the rated weight. It shall fully consider the boom deformation before lifting.
  - The boom elevation angle in boom lifting performance parameter list is of reference value; it shall refer to the working amplitude during working.
  - The working is only permitted under the force conditions of less than level 7.
  - The fifth leg must be properly mounted before 360° full circle rotation; otherwise, the working in front will not be permitted.
  - The lifting performance when using the boom end pulley is same as that of boom, but the maximum lifting capacity must not exceed 3,000 kg.
  - When the lifting jib length and working amplitude is different from that in the table, the lifting weight corresponding to long lifting jib length and large working amplitude shall be separately selected for operation.
  - When using the boom to lift with the jib in working state, the boom rated lifting capacity shall reduce at least 900 kg.
  - In case of full extension of lifting jib, the angle of elevation of lifting jib must not be equal to 0° even under no load condition so as to avoid turnover of complete vehicle.
  - In the lifting performance table, "I" and "II" respectively mean the extend-retract ratio of the telescopic cylinders in the boom.



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