

Zoomlion's crane world



New Generation of **V**-series



ZOOMLION

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ZOOMLION

QY40V532

Fully Hydraulic Truck Crane

Shape the future with "Heart"!

Making steady progress and surpassing ourselves all the way
—New-generation of QY40V truck crane comes into the market splendidly

Rome was not built in a day. So, we make constant effort to improve and perfect our products in every detail. Our 100% intention is just to 100% save your worries and earns your 100% trust.

Zoomlion QY40V fully hydraulic truck crane which is of super lifting capacity and lifting height than the same tonnage crane is designed with the half century's designing and manufacturing experience. It is a truck crane with high-performance and high-quality blended of the advanced designing concepts.



Being more satisfactory: Super lifting capacity and low energy consumption

Comparing with the same tonnage crane, it is of incomparable lifting capacity and lifting height, power but energy-saving “Heart” !

Super lifting capacity

Super-length telescopic boom: 41m long main boom and 9m to 15m long jib make the boom reach 41+15m long in total. Max. torque of basic boom is 1430KN.m. Its lifting capacity achieves the international advanced level.

Powerful telescopic booms: Hexagon boom section made from high-strength steel improves the bending-resistant ability of middle-and-full length boom obviously;

Patent technology improves crane's performance: New telescoping control method maximizes the working capacity of main boom. The stability of completely vehicle is greatly improved;

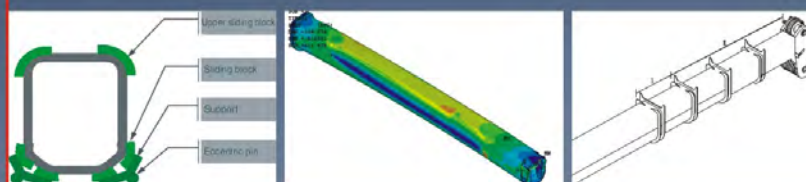
Great-displacement motor: The variable displacement motor is applied to main winch and auxiliary winch, which make the hoist rope speed reach 130 m/min.

Newly sliding block obtains a patent technology: New supporting method can upgrade the local stress. Its guiding and positioning device can guide and position the slewing table through the whole slewing process;

Solid chassis and outriggers ensure the stability: Half extendable outriggers enable the crane to better adapt to working environmental. The integral-welded-structured 5th outrigger is applied. Solid outriggers make an overall upgrade to the rigidity and stability of complete vehicle.

Energy-saving and environmental-friendly power system

World-famous-brand intelligent and electric fuel injection engine manufactured by Weichai, conform to EURO III, which is rigorously adjusted according to the crane's actual working conditions, can obtain optimized energy-saving capacity on the prerequisite of strong power.



Being freer from worries: Accurate control performance and stable slewing motion

Accurate control performance

Pilot operated joysticks offer you smooth and stable operation: The pilot operated joysticks effectively provide comfortable crane operation, stable and accurate crane movements;

Upgraded pipelines effectively improve the cleanness of hydraulic system: The arrangement of oil pipelines is all optimized via the special software. The pipelines are connected with clamped-type fitting. Thus the arrangement of pipelines is much more ergonomic, The appearance is better than before, making your maintenance work more convenient;

New-type circuits offer the crane of stable and smooth movements: New-type balance valve for derricking ensures stable movement of derricking down, which avoids the vibration during derricking down and makes the operation more stable. In addition, the balance valve is side mounted so as to make circuits more beautiful and maintenance more convenient.

Stable slewing motion

Hydraulic system works more stably and reliably:

1. Hydraulic controlled slewing can be real-time monitored: The slewing brake can be real-time controlled via the hydraulic controlled brake valve, ensuring the stability of operation;
2. Oil line: The slewing valve is a bypass throttling valve, which has reduced the influence of pressure fluctuation on slewing system.



Be more relieved:
In the past 50 years,
we have always been
endeavoring to improve
our products' quality
and reliability!

Nearly 50-year crane R & D and designing experience, continuously innovation, application of high-quality components and new technology are just in order to make our cranes blossom out blinding light and prove our cranes' reliability while working high-effectively! From last century 70s – the first “Wuling” truck crane born in Zoomlion – to today, ZOOMLION truck cranes' busy and vigorous figures are still active in the construction sites throughout the country. ZOOMLION truck cranes' high-reliability has enjoyed a good reputation inside of the business.

Product design adopts scientific advanced designing software
The crane is designed by special three-dimensional designing software and its force condition is fully analyzed by the finite element analyzing software. In this way, the high quality and reliability of the vehicle is ensured.

Driving system

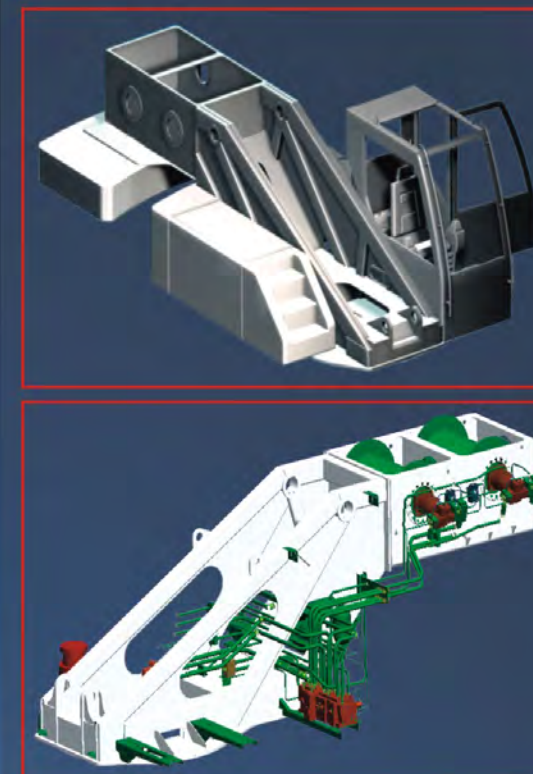
The propeller shaft is connected by flange and bolt, which has improved the reliability of connection and prolong the service life.

Electrical system

The crane adopts integrated control system and water-proof plugging elements as well as world-brand main electrical components.

Solid and flexible chassis

Solid chassis frame, excellent transmission and powerful driving system ensure the crane of good flexibility and trafficability, suitable for bad working conditions.



Human-oriented, enjoy the operation of the crane!

Advantages for standard maintenance

The front cover can be tilted upwards 80° , convenient for maintaining and repairing the chassis components. Open-type tail designing is convenient for maintaining and repairing the oil lines and valves.

Artistic guard rail ensures your safety: The hydraulic oil tank is protected by guard rails, so its safety and appearance are all greatly improved; New-type hood is of glass-fiber monocoque hood. Its side door can be tilted upwards 145° , which makes it convenient to maintain and repair the hydraulic and electrical elements.

Comfortable working space

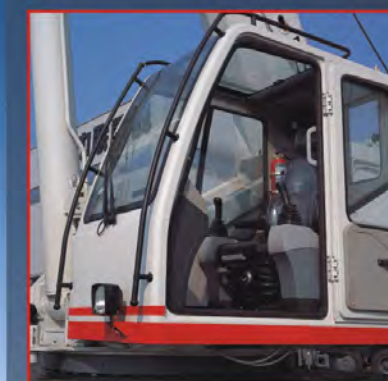
Roomy driver's cab and wide vision: All-steel structural and luxurious driver's cab of international style design and large space. Sound and heat absorbing internal paneling and computer display screen, elegant and luxurious;

Comfortable and cozy cabs: Adjustable spring-cushioned seat with two rails suitable for any operator. Renewed handles for convenient usage, safe and energy-saving;

Adjustable steering wheel: UV-cut curtain, A/C, heater, wipers with intermittent function and washer system;

Ergonomically arranged joysticks and instrumental panel: Modern designed instrumental panel. Switches and instruments all arranged according to their function, providing you with roomy space and comfortable driving feeling;

Reversing monitoring system: Optional reversing monitoring system and ABS can provide you with clear rear view, making reversing simpler and more relax;

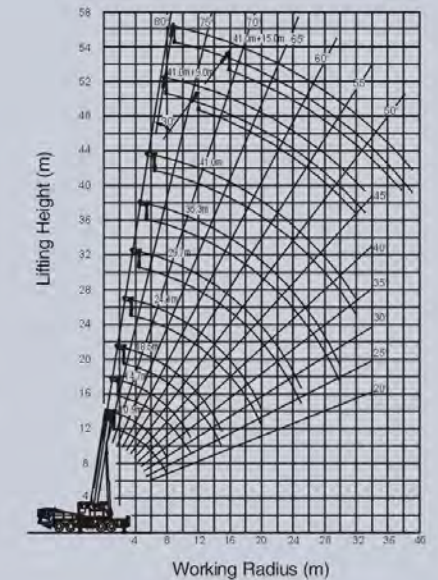
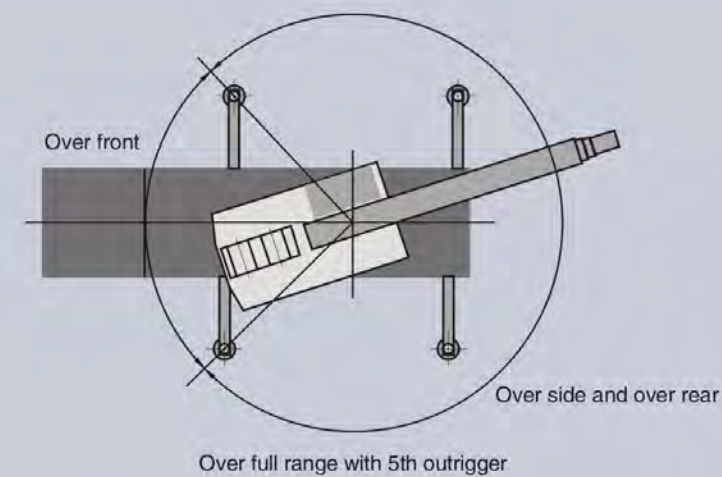




5 polygonal boom sections provide 41.7m lifting height (54.6m lifting height with jib)
Pilot proportional control provides accurate and easy operation
Four-axle special purpose chassis, 8 × 4 drive, 2 steered axles and 2 driven axles

Technical parameters

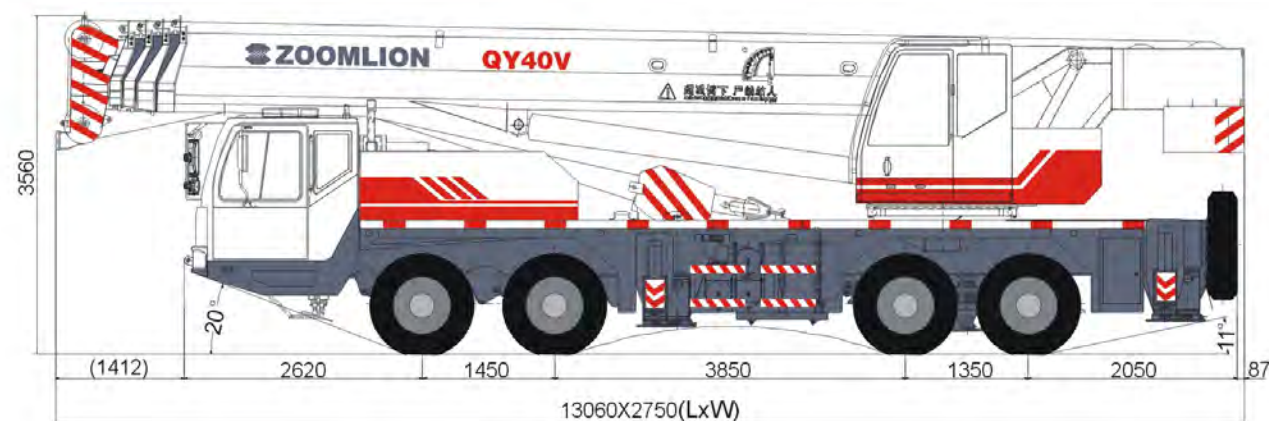
Working performance	Max. rated lifting capacity	kg	40000
	Max. torque of basic boom	kN.m	1430
	Max. torque of max. boom length	kN.m	800
	Max. lifting height of basic boom	m	12.0
	Max. lifting height of main boom	m	41.7
Working speeds	Max. lifting height of jib	m	56.4
	Max. hoist rope speed (main winch)	m/min	130
	Max. hoist ropes peed (auxiliary winch)	m/min	80
	Boom derricking up time	s	40
	Boom extending time	s	80
Traveling parameters	Slewing speed	°/min	0°2.2
	Max. traveling speed	km/h	70
	Max. gradeability	%	30
	Min. turning diameter	m	≤24
	Min. ground clearance	mm	280
Weights	Oil consumption per hundred kilometers	L	48
	Deadweight in traveling condition	kg	37000
	Complete vehicle kerb mass	kg	36870
	Front axle load	kg	13700
	Rear axle load	kg	24300
Dimensions	Overall dimensions (L × W × H)	mm	13060 × 2750 × 3560
	Longitudinal distance between outriggers	m	5.6
	Transversal distance between outriggers	m	6.90m (sliding beam fully extended) 4.70m (sliding beam half extended)
	Slewing radius	mm	3370
	Main boom length	m	10.9+41.0
Chassis	Main boom angle	°	-2—80
	Jib length	m	9.15
	Offset	m	0.30
	Model		ZLJ5414V ZLJ5414V3.8
	Type		II
Chassis	Engine model		WP10.280 Weichai Power Co. Ltd.
	Rated power of engine	kW/r/min	213/2200
	Max. output torque of engine	N.m/r/min	1160/1200—1600
	Limits for exhaust pollutants and smoke		According to GB3847—2005 GB17691—2005 (National stage III)
	Manufacturer		Zoomlion



Rated lifting capacity table

Unit:kg

Working radius (m)	Boom (m)												
	Outriggers and telescopic cylinder I fully extended, over side and over rear							Outriggers fully extended and telescopic cylinder I half extended, over side and over rear					
	10.9	14.7	18.5	24.1	29.7	35.3	41.0	10.9	14.7	20.3	25.9	31.5	37.2
3.0	40000	33000						40000	33000				
3.5	40000	33000	26000					40000	33000				
4.0	34500	30000	26000					34500	30000	18000			
4.5	31000	28000	24500	18000				31000	28000	18000			
5.0	28000	26000	22500	17500				28000	26000	17500	13500		
5.5	26000	24000	20800	17000	13500			26000	24000	17000	13500		
6.0	23500	22500	19300	16500	13000			23500	22500	16500	13000		
6.5	21500	21000	18000	15500	12500			21500	21000	15500	12500	10500	
7.0	19500	19000	16900	14500	12000	10500		19500	19000	14500	12000	10500	
7.5	17200	16500	15800	13500	11500	10500		17200	16500	13500	11500	10500	7800
8.0	15300	15000	14600	12500	11000	10000	7800	15300	15000	12500	11000	10000	7800
9.0	12200	12000	11600	11500	10200	9500	7400	12200	12000	12000	10200	9500	7400
10.0		9900	9500	10400	9400	8500	7000		9900	10800	9400	8500	7000
11.0		8200	7800	8800	8600	7500	6600		8200	9200	9000	7500	6600
12.0		7000	6600	7600	8000	6900	6000		7000	7900	8300	6900	6000
14.0			4600	5600	6000	6300	5400			5900	6300	6600	5400
16.0			3200	4200	4600	4900	5000			4500	4900	5200	5000
18.0				3000	3500	3900	4000			3400	3800	4100	4300
20.0				2200	2600	2950	3100				3000	3300	3350
22.0					2000	2200	2400				2300	2550	2700
24.0					1500	1750	1900					2000	2150
26.0					1100	1300	1500					1600	1800
28.0						1000	1150					1200	1400
30.0						700	900					900	1100
32.0							600						800
I	0	3.8	7.6	7.6	7.6	7.6	7.6	0	3.8	3.8	3.8	3.8	3.8
II	0	0	0	5.6	11.2	16.8	22.5	0	0	5.6	11.2	16.8	22.5
Reeving	10	8	8	5	5	3	3	10	8	5	5	3	3
Hook	40t main hook												



Rated lifting capacity table

Unit:kg

Working radius (m)	Boom (m)												
	Outriggers fully extended and telescopic cylinder I fully retracted, over side and over rear					Outriggers half extended and telescopic cylinder I fully extended, over side and over rear							
	10.9	16.5	22.1	27.7	33.4	10.9	14.7	18.5	24.1	29.7	35.3	41.0	
3.0	40000	18000				40000	33000						
3.5	40000	18000				36000	30000	26000					
4.0	34500	18000				32000	27000	24000					
4.5	31000	18000	13500			27000	24000	22000	18000				
5.0	28000	18000	13500			22500	21500	20000	17500				
5.5	26000	18000	13500	10500		18400	17800	17000	17000	13500			
6.0	23500	17500	13500	10500		15300	14700	14000	15000	13000			
6.5	21500	16500	13000	10500		13000	12500	12000	13000	12500			
7.0	19500	15500	12500	10500	7800	11200	10800	10500	11300	11500	10500		
7.5	17200	14500	12000	10500	7800	9700	9300	9000	9800	10000	10000		
8.0	15300	13500	11500	10000	7800	8600	8200	7900	8600	9000	9500		
9.0	12200	12500	11000	9500	7400	6700	6300	6000	6700	7100	7500	7500	
10.0		11400	10000	8500	7000		4900	4600	5300	5700	6100	7000	
11.0		9600	9500	7500	6600		3800	3600	4300	4700	5100	6500	
12.0		8300	8700	6900	6000		3000	2800	3500	3900	4300	5500	
14.0		6300	6700	6600	5200			1500	2300	2600	2900	4600	
16.0			5300	5500	4500				1400	1700	2000	3200	
18.0			4200	4400	4000				700	1100	1400	2300	
20.0			3300	3500	3600					600	900	1100	
22.0				2900	3100							700	
24.0				2300	2500								
26.0					2100								
28.0					1700								
30.0					1400								
32.0													
I	0	0	0	0	0	0	3.8	7.6	7.6	7.6	7.6	7.6	
II	0	5.6	11.2	16.8	22.5	0	0	0	5.6	11.2	16.8	22.5	
Reeving	10	5	5	3	3	10	8	8	5	5	3	3	
Hook	40t main hook												

Rated lifting capacity table

Unit:kg

Working radius (m)	Boom (m)											Boom angle (°)	Boom + jib (m)			
	Outriggers and telescopic cylinder I half extended, over side and over rear						Outriggers half extended and telescopic cylinder I fully retracted, over side and over rear						Outriggers fully extended, over side and over			
	10.9	14.7	20.3	25.9	31.5	37.2	10.9	16.5	22.1	27.7	33.4		41 0+9 0	41 0+15 0		
3.0	40000	33000					40000	18000					0°	30°	0°	30°
3.5	36000	30000					36000	18000				80	4000	2500	2500	1100
4.0	32000	27000	18000				32000	18000				78	4000	2500	2350	1050
4.5	27000	24000	18000				27000	18000	13500			76	4000	2400	2200	1000
5.0	22500	21500	17500	13500			22500	17500	13500			74	3800	2300	2020	950
5.5	18400	17800	17000	13500			18400	17000	13500	10500		72	3500	2200	1820	910
6.0	15300	14700	15500	13000			15300	16000	13000	10500		70	3200	2120	1660	870
6.5	13000	12500	13500	12500	10500		13000	14000	12500	10500		68	2800	2000	1540	840
7.0	11200	10800	11700	11500	10500		11200	12200	11500	10500	7500	66	2400	1750	1430	820
7.5	9700	9300	10200	10500	10000	7500	9700	10700	11000	10000	7500	64	2050	1450	1330	780
8.0	8600	8200	9000	9500	9500	7500	8600	9500	10000	9500	7500	62	1700	1200	1150	740
9.0	6700	6300	7100	7600	8000	7000	6700	7500	8000	8000	7000	60	1420	1000	900	680
10.0		4900	5600	6100	6500	6700		6000	6400	6700	6700	58	1180	850	750	550
11.0		3800	4600	5100	5500	5800		5000	5400	5700	6100	56	960	700	600	400
12.0		3000	3800	4200	4600	4900		4100	4500	4800	5200	54	780	550	450	
14.0			2600	2900	3200	3500		2900	3200	3500	3800	52	600	450		
16.0			1700	2000	2300	2500			2300	2500	2800					
18.0				1400	1700	1900			1700	1900	2200					
20.0				900	1100	1300				1300	1600					
22.0					700	900				900	1200					
24.0						600					900					
26.0											600					
28.0																
30.0																
32.0																
I	0	3.8	3.8	3.8	3.8	3.8	0	0	0	0	0					
II	0	0	5.6	11.2	16.8	22.5	0	5.6	11.2	16.8	22.5					
Reeving	10	8	5	5	3	3	10	5	5	3	3	Reeving	1			
Hook	40t main hook											Hook	4.5t auxiliary hook			

