



## XCMG For Your Success

<b>Max. lifting capacity (t)</b>	50
<b>Max. lifting torque (kN.m)</b>	1822
<b>Main boom length (m)</b>	42.7
<b>Engine model</b>	WD615.334
<b>Rated engine power (kW)</b>	247

# QY50KA

TRUCK CRANE



# QY50KA

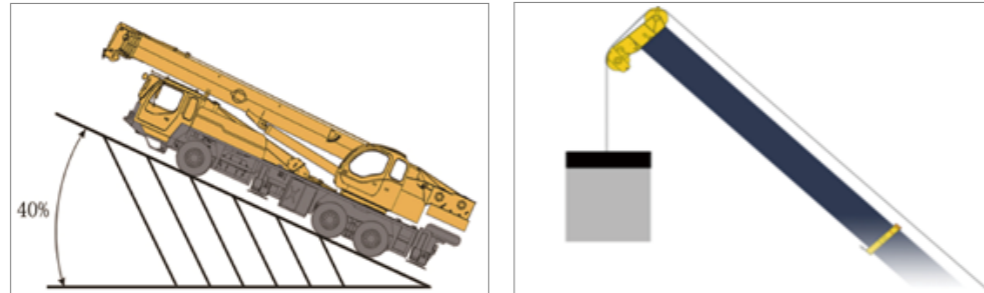
## Truck Crane

### Product Advantages

#### Super Strong Lifting Performance

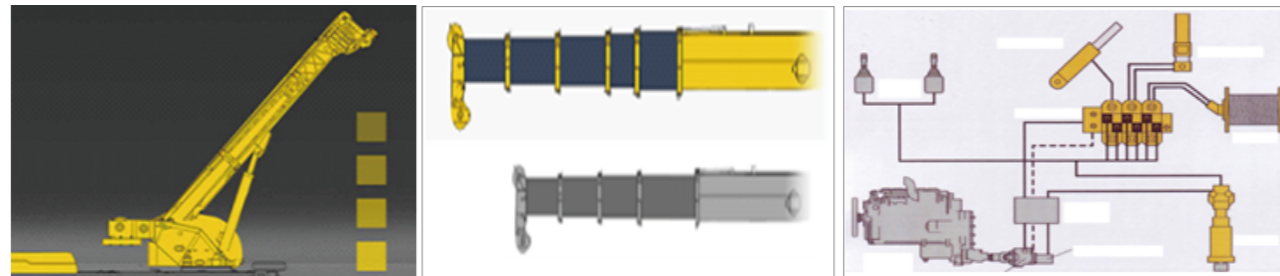
Adopted 5-section U-shaped main boom with strong lifting performance, making the product outshine products of its tonnage in the industry.

Equipped with four-axle dedicated automobile chassis and 9-speed gearbox, therefore the product has excellent driving performance and strong trafficability and maneuverability.



#### High-efficiency Dual-pump Confluence Technology

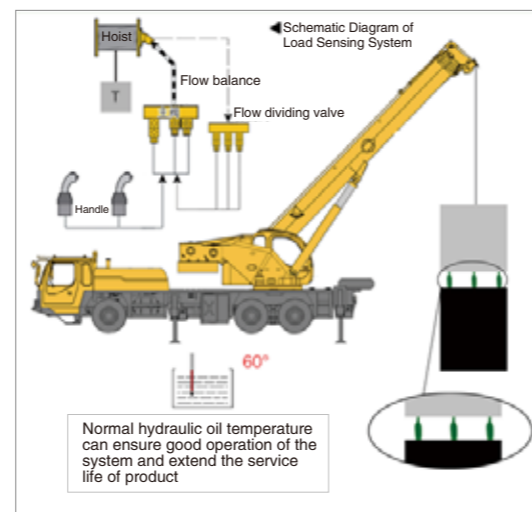
Adopted an all-new hydraulic system design, which can realize the manual switch between telescopic & luffing dual-pump and single pump. In the event of confluence, telescopic & luffing operation speed is increased by up to 50%. When the telescopic & luffing operation switches to single-pump operation, the calorific value of the hoist will be decrease by 50%.



#### Steady Operating System

The hoisting mechanism is integrated with the load sensing filter technology, making the system free from influence by the changing of load pressure and oil pump flow rate. Thus, the hoisting speed can be adjusted more precisely. Also, the hydraulic system's energy consumption and calorific value can be reduced, and its service life will be prolonged in return.

Application of the slewing buffering technology with unique structure makes the slewing system operate steadily and without jittering. Luffing system is of high efficiency and energy conservation, and drops steadily.



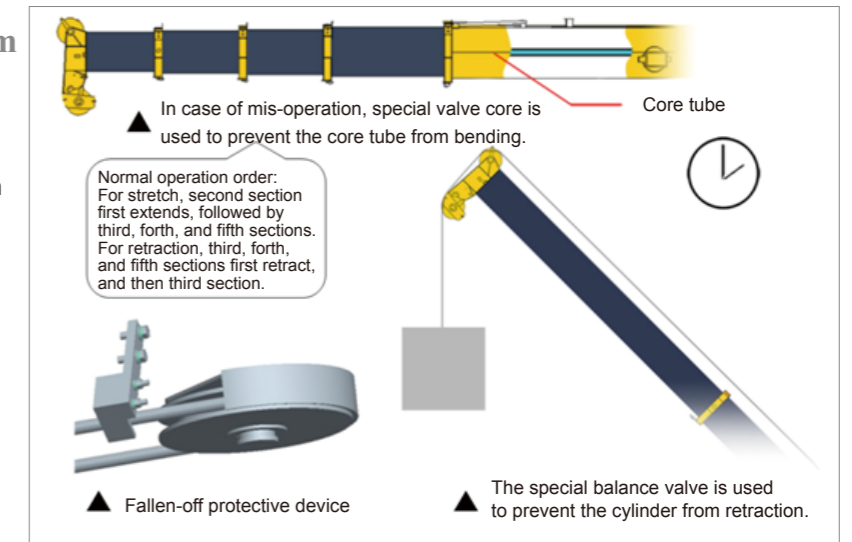
#### Excellent Driving Performance

The newly-developed engine in-cylinder brake and exhaust brake combination makes the vehicle's retarder brake capability increased by three folds. When driving downhill along a long slope, the vehicle speed is more stable. Retarder brake and brake linkage make the brake distance decreased by 10%.



#### Safe and Reliable Telescopic System

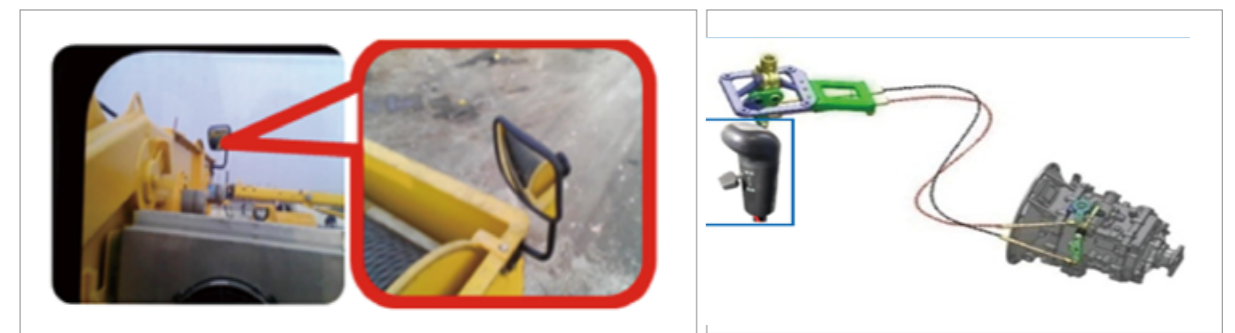
The boom telescopic control technology with national patent makes the lifting boom extend and retract according to the specified sequence, as a way to avoid the cylinder bending and boom braking resulting from incorrect operation, which helps improve operation safety. Dedicated balance valve plug is adopted to prevent the balance valve from suffering oil leakage and avoid the cylinder's retraction.



#### All-new Human-centric Design

Additionally equipped with hoist monitoring mirror to reinforce the safety in application.

Adopted single H-shaped gearshift model and new-type operation flexible shaft mechanism to make the operation convenient and comfortable, which fully exemplifies the human-centric design philosophy.



## Technical Specifications

## QY50KA

Item			Unit			
Dimensions	Total length	13770	mm			
	Total width	2800	mm			
	Total height	3570	mm			
Weight	Operation mass in travel state	41000	kg			
	1st axle load	7500	kg			
	2nd axle load	7500	kg			
	3rd axle load	13000	kg			
	4th axle load	13000	kg			
Power	Engine model	WD615.334 / WD615.338 / WP10.336 / WP10.375				
	Engine rated output	247/2200	276/2200	247/2200	275/2200	kW/(r/min)
	Engine max torque	1350/(1300~1600)	1500/(1300~1600)	1350/(1100~1500)	1460/(1200~1600)	N.m/(r/min)
Travel	Max. travel speed	80	km.h			
	Min. turning diameter	24	m			
	Min. ground clearance	291	mm			
	Approach angle	17	°			
	Departure angle	11	°			
	Max. gradeability	40	%			
	Fuel consumption per 100km	42	L			
	Main performance	Max. total rated lifting load	50	t		
Min. rated working radius		3	m			
Turning radius at turntable tail		3482	mm			
Basic boom max. load moment		1822	kN.m			
Basic boom		11.3	m			
Fully-extended main boom		42.7	m			
Fully-extended main boom + luffing jib		57.7	m			
Outrigger longitudinal span		5.91	m			
Outrigger lateral span		6.9	m			
Working speed		Boom luffing time	40	s		
	Boom telescoping time	80	s			
	Max. slewing speed	2	r/min			
	Max speed of main hoist (NO load)	130	m/min			
	Max speed of auxiliary mechanism (NO load)	120	m/min			

## Total Rated Lifting Load

Total rated lifting load for main boom																						
Without the 5th Outrigger; Main boom at the tear, or with the 5th outrigger, 360°swing																						
Working radius (m)	Basic boom 11.3m			Mid-extended boom 15.22m			Mid-extended boom 19.15m			Mid-extended boom 25.03m			Mid-extended boom 30.92m			Mid-extended boom 36.81m			Fully-extended boom 42.7m			
	Lifting Load (kg)	Boom angle (°)	Lifting Height (m)	Lifting Load (kg)	Boom angle (°)	Lifting Height (m)	Lifting Load (kg)	Boom angle (°)	Lifting Height (m)	Lifting Load (kg)	Boom angle (°)	Lifting Height (m)	Lifting Load (kg)	Boom angle (°)	Lifting Height (m)	Lifting Load (kg)	Boom angle (°)	Lifting Height (m)	Lifting Load (kg)	Boom angle (°)	Lifting Height (m)	
3.0	50000	70.3	11.55																			
3.5	50000	67.5	11.32																			
4.0	44000	64.7	11.07	40000	72.1	15.37	33000	76.4	19.51													
4.5	40000	61.7	10.77	37500	70.1	15.17	31300	74.8	19.35	24500	79.8	25.46										
5.0	36000	58.7	10.45	34500	68.0	14.94	29300	73.2	19.35	22600	78.7	25.34										
5.5	32500	55.5	10.08	31500	65.9	14.7	27500	71.6	19.00	21200	77.5	25.2										
6.0	31000	52.3	9.67	30000	63.8	14.43	26000	70.0	18.79	20000	76.3	25.05	16500	80.0	31.18							
7.0	26100	45.1	8.68	25700	59.3	13.82	24000	66.7	18.34	18300	73.9	24.71	15200	78.8	30.92	12800	81.2	37.10				
8.0	20400	36.8	7.38	19700	54.7	13.09	19400	63.3	17.81	16600	71.4	24.33	13800	76.8	30.61	12000	79.0	36.94				
9.0	16200	25.9	5.5	15700	49.7	12.23	15700	59.8	17.2	15300	68.9	23.9	12600	74.9	30.27	11200	78.0	36.56	9000	80.0	42.68	
10.0				12800	44.3	11.19	12800	56.2	16.51	13800	66.4	23.41	11700	72.9	29.89	10200	76.4	36.25	9000	78.8	42.42	
12.0				8700	31.0	8.3	8700	48.3	14.79	9700	61.1	22.26	10300	68.9	29.01	8900	73.0	35.53	8000	76.0	41.80	
14.0							6100	39.1	12.48	7100	55.5	20.85	7700	64.7	27.96	7900	69.7	34.67	6800	73.2	41.08	
16.0							4300	27.2	9.06	5300	49.4	19.1	5800	60.3	26.7	6100	66.2	33.67	6000	70.3	40.25	
18.0										4000	42.6	16.91	4500	55.7	25.21	4900	62.6	32.51	5000	67.3	39.28	
20.0										3000	34.6	14.06	3500	50.7	23.44	3900	58.8	31.17	4000	64.2	38.19	
22.0										2200	24.1	9.93	2700	45.3	21.33	3100	54.9	29.62	3400	61.1	36.95	
24.0													2100	39.2	18.73	2500	50.7	27.84	2700	57.8	35.55	
26.0													1600	32.0	15.41	1900	46.3	25.76	2200	54.4	33.96	
28.0																1500	41.3	23.31	1700	50.8	32.17	
30.0																1000	35.8	20.35	1300	47.0	30.13	
32.0																			1000	42.8	27.78	
Override	12			9			8			6			4			3			3			

Total rated lifting load for luffing jib																
Fully-extended outrigger 6.9m counter weight 5.5t																
Main boom 42.7m, luffing jib 8.5m																
Main boom 42.7m, luffing jib 15m																
Boom angle (°)	Jib offset															
	0°		15°		30°		0°		15°		30°					
	Lifting Load (kg)	Lifting Load (kg)	Lifting Load (kg)	Lifting Load (kg)	Lifting Load (kg)	Lifting Load (kg)	Lifting Load (kg)	Lifting Load (kg)	Lifting Load (kg)	Lifting Load (kg)	Lifting Load (kg)	Lifting Load (kg)	Lifting Load (kg)	Lifting Load (kg)	Lifting Load (kg)	Lifting Load (kg)
78	4000	2700	2400	2500	1400	1100										
75	3600	2500	2300	2100	1250	1000										
72	3200	2300	2200	1800	1150	990										
70	2900	2200	2100	1700	1100	950										
65	2300	2000	1900	1400	950	850										
60	1800	1600	1500	1100	800	750										
55	1000	1000	900	800	700	650										
50	600	500	500	500	400	400										
Weight of hook block	100kg															

- Lifting capacity in the table refers to the total rated weight including sling and hook.
- The crane shall be used only under wind speed lower than that of a breeze.