

ZOOMLION® QY50V532

ZLJ5411JQZ50V

Full Hydraulic Truck Crane Technical Specifications

- Pilot proportional control of superstructure
- Single cylinder derricking, double winches
- It can work with outrigger beam half extended which makes great flexibility of the crane
- Styre engine with great power which can save energy of 10% than the common engine
- Acoustooptic warning alarm for the 5th outrigger not retracted complete is equipped in driver's cab



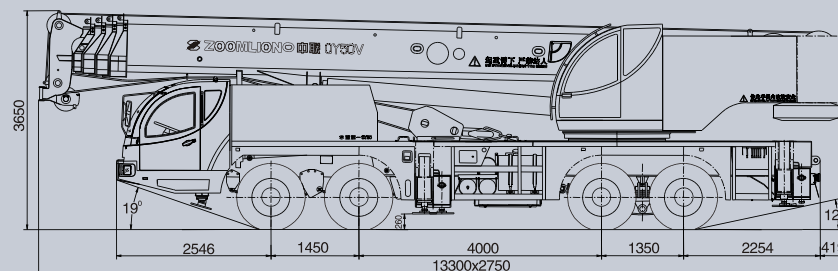
We reserve the right to change design and specifications without notice

Table of Main Technical Performance and Specifications

Working performance specifications	Max. rated total lifting capacity	kg	55000
	Max. load moment of basic boom	kN.m	1764 1470 (With the outrigger beam half extended)
	Max. load moment with max. boom length	kN.m	940.8 793.8 (With the outrigger beam half extended)
	Max. lifting height of basic boom	m	11.6
	Max. lifting height of boom	m	42.1 No deformation of boom is included.
Working speed	Max. lifting height of jib	m	58.3 No deformation of boom is included.
	Max. speed of single rope on main winch	m/min	130 The 4 th layer of a drum
	Max. speed of single rope on auxiliary winch	m/min	72 The 2 nd layer of a drum
	Telescopic time of boom	s	50
	Derricking time of boom	s	95
Traveling specifications	Slewing speed	r/min	0~2
	Max. transport speed	km/h	76
	Max. gradeability	%	32
	Min. Turning radius	m	24
	Min. ground clearance	mm	260
Mass specifications	Limits for exhaust pollutants and smoke		National III
	Oil consumption per hundred kilometers	L	48
	Deadweight of crane in traveling condition	kg	40600
	Complete vehicle kerb mass	kg	40470
	Front axle load	kg	14850
Dimensions specifications	Tandem & rear axle load	kg	25750
	Overall dimensions(L × W × L)	mm	13300 × 2750 × 3650
	Base on outriggers	m	5.92
	Distance between outriggers	m	It is 6.90m with outriggers full extended; it is 4.70m with outriggers half extended.
	Boom length	m	11.1~42.0
Chassis	Boom angle	°	-2 ~ 80
	Jib length	m	9.5 、 16
	Offset angle of jib	°	0 、 30
	Model		ZLJ5414
	Class		II
	Engine model	kW/r/min	WP10.336
	Engine power	N.m/r/min	247/2200
	Max. torque		1250/1200 ~ 1600
	Manufacturer		Zoomlion

More choices which can satisfy more requirements

- Electro-hydraulic proportion control fixed on Superstructure is optional. Main hydraulic elements are imported.
- The optional GPS locating system which can not only confirm the vehicle's location via satellite, but also long-distance and real-time monitor the equipments' operation condition and parameter, so when fault occurs, the solution can be provided.
- The cooling A/C and the heater fixed in superstructure are available as option.
- The interphone, which is convenient for the contact between operator and commanders, is available as option.



We reserve the right to change design and specifications without notice

Rated Lifting Capacity Table

Unit: kg

working radius (m)	Boom							boom angle (°)	boom + jib(m)			
	operate in side and rear working area with cylinder I and outriggers extended completely								42.00m+9.50m		42.00m+16.00m	
	Boom length								offset angle		offset angle	
	11.1	15.0	18.8	24.6	30.4	36.2	42.0		0°	30°	0°	30°
3.0	55000	40000	32000					80	4500	2150	2800	1000
3.5	50500	40000	32000					78	4500	2050	2600	1000
4.0	44500	40000	32000	24000				76	4200	1950	2300	1000
4.5	40000	36000	31000	23000				74	3800	1900	2000	1000
5.0	36000	33000	29000	21800	16000			72	3500	1850	1800	1000
5.5	32000	30000	27300	20600	16000	12400		70	3200	1800	1650	1000
6.0	29000	27500	25700	19500	16000	12400		68	3000	1750	1550	900
6.5	26000	25500	24200	18500	15500	12400		66	2700	1700	1450	850
7.0	24000	23500	23000	17500	14600	12400	9000	64	2300	1650	1350	800
7.5	22300	21900	21500	16600	14000	12400	9000	62	2000	1600	1250	750
8.0	20300	19700	19400	15800	13300	11800	9000	60	1700	1350	1150	700
9.0	15800	15300	15000	14300	12200	10900	9000	58	1400	1100	1000	650
10.0		12200	12000	13000	11200	10000	9000	56	1150	850	850	500
11.0		9900	9700	10700	10300	9200	8300	54	950	650	650	
12.0		8200	8000	9000	9700	8500	7800	52	750	450		
14.0			5500	6500	7150	7500	6800					
16.0			3800	4800	5400	5750	6000					
18.0				3550	4150	4500	4750					
20.0				2600	3200	3500	3750					
22.0				1850	2400	2750	3000					
24.0					1800	2100	2350					
26.0					1300	1600	1850					
28.0					850	1200	1450					
30.0						850	1050					
32.0							750					
I	0	3.9	7.7	7.7	7.7	7.7	7.7	Fall				
II	0	0	0	5.8	11.6	17.4	23.2					
falls	12	8	8	6	4	4	3		1			
hook	50t main hook								4.5t main hook			

Unit: kg

working radius (m)	Boom					
	operate in side and rear working area with outriggers extended completely					
	Boom length					
	11.1	15.0	20.8	26.6	32.4	38.2
3.0	55000	40000	24000			
3.5	50500	40000	24000			
4.0	44500	40000	24000	16000		
4.5	40000	36000	23000	16000		
5.0	36000	33000	21800	16000		
5.5	32000	30000	20600	16000	12400	
6.0	29000	27500	19500	16000	12400	
6.5	26000	25500	18500	15500	12400	8500
7.0	24000	23500	17500	14600	12400	8500
7.5	22300	21900	16600	14000	12400	8500
8.0	20300	19700	15800	13300	11800	8500
9.0	15800	15300	14600	12200	10900	8500
10.0		12200	13400	11200	10000	8500
11.0		9900	11100	10300	9200	7700
12.0		8200	9400	9700	8500	7200
14.0			6700	7400	7500	6200
16.0			5000	5700	6100	5500
18.0				4400	4800	4850
20.0				3300	3700	4000
22.0				2500	2900	3200
24.0					2400	2600
26.0					1900	2100
28.0						1600
30.0						1200
32.0						1000
I	0	3.9	3.9	3.9	3.9	3.9
II	0	0	5.8	11.6	17.4	23.2
falls	12	8	6	4	4	3
hook	50t main hook					

We reserve the right to change design and specifications without notice

Rated Lifting Capacity Table

Unit: kg

working radius (m)	Boom				
	operate in side and rear working area without cylinder I extended and with outriggers extended completely				
	Boom length				
	11.1	16.9	22.7	28.5	34.3
3.0	55000	24000			
3.5	50500	24000	16000		
4.0	44500	24000	16000		
4.5	40000	23000	16000	12400	
5.0	36000	21800	16000	12400	
5.5	32000	20600	16000	12400	
6.0	29000	19500	16000	12400	8500
6.5	26000	18500	15500	12000	8500
7.0	24000	17500	14600	11500	8500
7.5	22300	16600	14000	11000	8500
8.0	20300	15800	13300	10500	8500
9.0	15800	14600	12200	9500	8300
10.0		14100	11200	8600	7600
11.0		11700	10800	8000	7000
12.0		9800	10200	7500	6500
14.0			7900	6400	5600
16.0			6200	5550	4700
18.0			4800	4850	4100
20.0				4200	3600
22.0				3400	3200
24.0				2700	2800
26.0					2300
28.0					1800
30.0					
32.0					
I	0	0	0	0	0
II	0	5.8	11.6	17.4	23.2
falls	12	6	4	4	3
hook	50t main hook				

Unit: kg

working radius (m)	Boom							boom angle (°)	boom + jib(m)			
	operate in side and rear working area with cylinder I extended completely and outriggers half extended								42.00+9.50		42.00+16.00	
	Boom length								offset angle		offset angle	
	11.1	15.0	18.8	24.6	30.4	36.2	42.0		0°	30°	0°	30°
3.0	50000	40000	32000					80	4500	2150	2800	1000
3.5	44000	40000	32000					78	4500	2050	2600	1000
4.0	38000	36000	32000	24000				76	4200	1950	2300	1000
4.5	33000	32000	31000	23000				74	3800	1900	2000	1000
5.0	27200	26600	26200	21800	16000			72	3000	1850	1800	1000
5.5	22200	21600	21300	20600	16000			70	2300	1650	1650	1000
6.0	18500	18000	17700	18900	16000	12400		68	1700	1250	1350	900
6.5	15700	15200	14900	16100	15500	12400		66	1200	900	900	700
7.0	13500	13000	12700	13900	14600	12400	9000	64	800	600	600	450
7.5	11700	11300	11000	12200	12900	12400	9000	62	500			
8.0	10300	9900	9600	10700	11400	11800	9000	60				
9.0	8000	7700	7400	8500	9100	9500	9000	58				
10.0		6100	5800	6800	7400	7800	8100	56				
11.0		4800	4500	5500	6000	6400	6700	54				
12.0		3800	3500	4500	5000	5400	5700	52				
14.0			2000	3000	3500	3800	4100					
16.0			1000	1900	2400	2700	3000					
18.0				1100	1600	1900	2200					
20.0					1000	1300	1600					
22.0						800	1100					
24.0							600					
26.0												
28.0												
30.0												
32.0												
I	0	3.9	7.7	7.7	7.7	7.7	7.7	Fall				
II	0	0	0	5.8	11.6	17.4	23.2					
falls	12	8	8	6	4	4	3		1			
hook	50t main hook								4.5t auxiliary hook			

We reserve the right to change design and specifications without notice

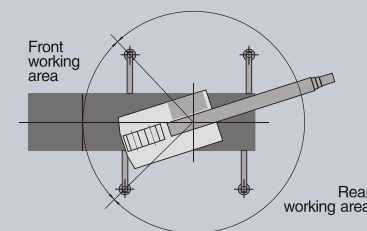
Rated Lifting Capacity Table

Unit: kg

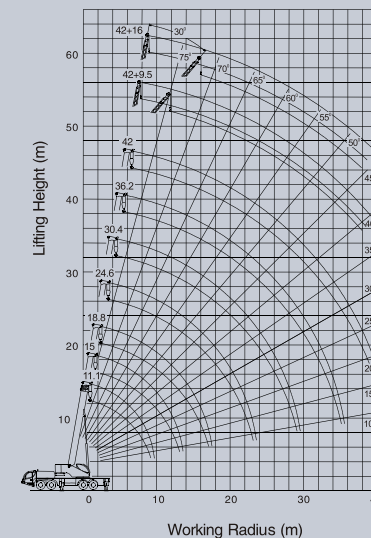
working radius (m)	Boom					
	operate in side and rear working area with cylinder I and outriggers half extended					
	Boom length					
	11.1	15.0	20.8	26.6	32.4	38.2
3.0	50000	40000	24000			
3.5	44000	40000	24000			
4.0	38000	36000	24000	16000		
4.5	33000	32000	23000	16000		
5.0	27200	26600	21800	16000		
5.5	22200	21600	20600	16000	12400	
6.0	18500	18000	19200	16000	12400	
6.5	15700	15200	16600	15500	12400	8500
7.0	13500	13000	14400	14600	12400	8500
7.5	11700	11300	12600	13100	12000	8500
8.0	10300	9900	11200	11900	11500	8500
9.0	8000	7700	8800	9500	10000	8500
10.0		6100	7200	7800	8200	8300
11.0		4800	5900	6500	6900	7200
12.0		3800	4800	5400	5800	6100
14.0			3200	3800	4200	4500
16.0			2100	2700	3100	3400
18.0				1800	2200	2500
20.0				1300	1600	1850
22.0					1100	1350
24.0						900
26.0						
28.0						
30.0						
32.0						
I	0	3.9	3.9	3.9	3.9	3.9
II	0	0	5.8	11.6	17.4	23.2
falls	12	8	6	4	4	3
hook	50t main hook					

Unit: kg

working radius (m)	Boom				
	operate in side and rear working area without cylinder I extended and with outriggers half extended				
	Boom length				
	11.1	16.9	22.7	28.5	34.3
3.0	50000	24000			
3.5	44000	24000	16000		
4.0	38000	24000	16000		
4.5	33000	23000	16000	12400	
5.0	27200	21800	16000	12400	
5.5	22200	20600	16000	12400	
6.0	18500	19500	16000	12400	8500
6.5	15700	17500	15500	12000	8500
7.0	13500	15100	14600	11500	8500
7.5	11700	13200	13800	11000	8500
8.0	10300	11800	12400	10400	8500
9.0	8000	9500	10100	9500	8300
10.0		7700	8300	8700	7600
11.0		6400	7000	7350	7100
12.0		5300	5900	6250	6300
14.0		3700	4300	4650	4700
16.0			3200	3550	3600
18.0			2400	2700	2750
20.0				2050	2100
22.0				1500	1550
24.0				1100	1150
26.0					750
28.0					
30.0					
32.0					
I	0	0	0	0	0
II	0	5.8	11.6	17.4	23.2
falls	12	6	4	4	3
hook	50t main hook				



Set up the 5th outrigger and then it is suitable for 360° operation.



- Note:** 1. Above working condition is when the outriggers extend completely. It is forbidden to lift a load without the support of outriggers.
 2. Set up the 5th outrigger and then it is suitable for 360° operation.
 3. The rated lifting capacity in above table is the maximum permitted lifting capacity, which includes the weight of hook (main hook's weight is 510kg and auxiliary hook's weight is 120 kg) and other load handling device.
 4. The working radius given in the table is the horizontal distance from the central axle of slewing ring to the centerline of hook when crane is loaded.
 5. When actual boom length and working radius are between two values in the table, the larger value should be taken to ascertain lifting capacity.
 6. When boom works while that jib has been extended, its rated lifting capacity should be subtracted by not only load handling device's weight, but also jib's weight 2000kg.