

ZOOMLION® QY70V53Z

ZLJ5450JQZ70V1

Full Hydraulic Truck Crane Technical Specifications

We reserve the right to change design and specifications without notice

- Superstructure electro-hydraulic proportional control adopts PLC program control and CAN bus-connecting,thus can realize self-diagnose.
- By means of two sections outrigger beam,span is large which ensures well stability of the crane.
- Styre energy-saving engine with great power which can save energy of near 10% than common engine.
- The Shanxi Fuller gear-box(with low speed climbing gear)can ensure excellent performance and stable & reliable transmission.
- The durable wire radial tyre is adaptive for any evil travelling conditions with heavy-load.

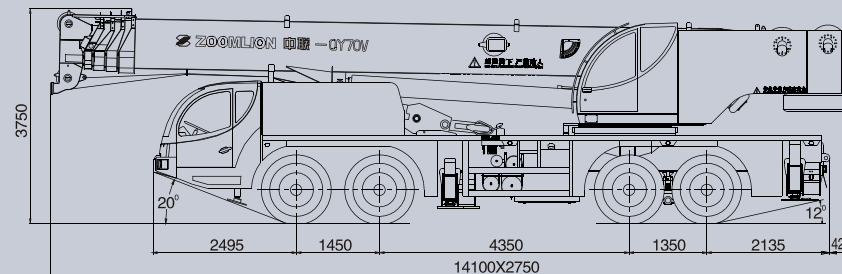


Table of Main Technical Performance and Specifications

Working performance specifications	Max. rated total lifting capacity	kg	70000
	Max. load moment of basic boom	kN.m	2352
	Max. load moment with max. boom length	kN.m	1098
	Max. lifting height of basic boom	m	12.2
	Max. lifting height of boom	m	44.2 No deformation of boom is included.
	Max. lifting height of jib	m	60.2 No deformation of boom is included.
Working speed	Max. speed of single rope on main winch	m/min	120 The 4 th layer of a drum
	Max. speed of single rope on auxiliary winch	m/min	68 The 2 nd layer of a drum
	Telescopic time of boom	s	57
	Demicking time of boom	s	107
	Slewing speed	r/min	1.6
	Max. transport speed	km/h	75
Traveling specification	Max. gradeability	%	35
	Min. Turning radius	m	24
	Min. ground clearance	mm	280
	Limits for exhaust pollutants and smoke		National III
	Oil consumption per hundred kilometers	L	55
	Deadweight of crane in traveling condition	kg	45000
Mass specifications	Complete vehicle kerb mass	kg	44870
	Front axle load	kg	19000
	Tandem & rear axle load	kg	26000
	Overall dimensions(L × W × L)	mm	14100 × 2750 × 3750
Dimensions specifications	Base on outriggers	m	6.00
	Distance between outriggers	m	It is 7.60m with outriggers full extended; it is 5.04m with outriggers half extended.
	Boom length	m	11.6~44.0
	Boom angle	°	~2 ~ 80
	Jib length	m	9.5 、 16
	Offset angle of jib	°	0 、 30
Chassis	Model		ZLJ5455
	Class		II
	Engine model	kW/r/min	WP10.375
	Engine power	N.m/r/min	276/2200
	Max. torque		1460/1460 ~ 1600
	Manufacturer		Zoomlion

More choices which can satisfy more requirements

- The GPS locating system is optional 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 Cummins QSL 325 engine is optional.
- The interphone,which is convenient for the contact between operator and commanders,is available as option.



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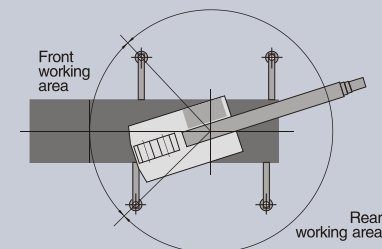
Rated Lifting Capacity Table

Unit: kg

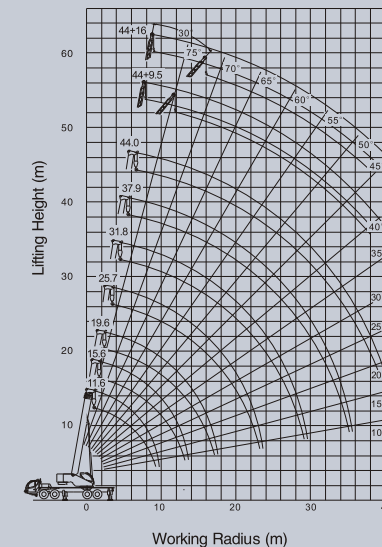
working radius (m)	Boom						
	operate in side and rear working area with cylinder I and outriggers extended completely						
	Boom length						
	11.6	15.6	19.6	25.7	31.8	37.9	44.0
3.0	70000	50000	40000				
3.5	63000	50000	40000	28000			
4.0	56000	47000	40000	28000			
4.5	52000	44000	40000	28000	18000		
5.0	48000	42000	38000	27000	18000		
5.5	43000	39000	36000	26000	18000		
6.0	39000	37000	34000	25000	18000	14000	
6.5	35000	33000	31500	24000	18000	14000	
7.0	30000	28700	28700	23000	18000	14000	10000
7.5	26500	25000	25000	22000	18000	14000	10000
8.0	23500	22500	22500	21000	17500	14000	10000
9.0	18200	18200	18200	18500	16000	14000	10000
10.0		14700	14700	15300	14500	13000	9800
11.0		12200	12200	12700	13000	12000	9500
12.0		10200	10200	11000	11500	11000	9000
14.0			7100	8200	8800	9300	8000
16.0			5300	6000	6700	7200	7000
18.0				4700	5200	5500	5900
20.0				3500	4000	4300	4600
22.0					3100	3300	3800
24.0					2300	2500	3000
26.0					1700	1190	2300
28.0						1400	1800
30.0						900	1400
32.0							1000
I	0	4.0	8.0	8.0	8.0	8.0	8.0
II	0	0	0	6.1	12.2	18.3	24.4
falls	12	9	9	5	5	3	3
hook	70t main hook						

Unit: kg

working radius (m)	Boom					
	operate in side & rear working area with cylinder I half extended and outriggers full extended.					
	Boom length					
	11.6	15.6	21.7	27.8	33.9	40.0
3.0	70000	50000				
3.5	63000	50000	28000			
4.0	56000	47000	28000			
4.5	52000	44000	28000	18000		
5.0	48000	42000	27000	18000		
5.5	43000	39000	26000	18000		
6.0	39000	37000	25000	18000	14000	
6.5	35000	33000	24000	18000	14000	
7.0	30000	28700	23000	17500	14000	
7.5	26500	25000	22000	17000	14000	9500
8.0	23500	22500	21000	16500	14000	9500
9.0	18200	18200	19100	16000	14000	9000
10.0		14700	15600	14500	13000	8500
11.0		12200	13000	13800	12000	8000
12.0		10200	11000	11700	11000	7500
14.0			8200	8800	9300	7000
16.0			6100	6700	7200	6500
18.0				5200	5700	6000
20.0				4100	4500	4800
22.0				3200	3600	3900
24.0					2800	3100
26.0					2200	2500
28.0					1700	2000
30.0						1500
32.0						1200
I	0	4.0	4.0	4.0	4.0	4.0
II	0	0	6.1	12.2	18.3	24.4
falls	12	9	5	5	3	3
hook	70t main hook					



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



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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				
	11.6	17.7	23.8	29.9	36.0
3.0	70000	28000			
3.5	63000	28000	18000		
4.0	56000	28000	17800		
4.5	52000	28000	17600	14000	
5.0	48000	27000	17400	14000	
5.5	43000	26000	17200	14000	
6.0	39000	25000	17000	14000	9000
6.5	35000	24000	16800	14000	9000
7.0	30000	23000	16500	14000	9000
7.5	26500	22000	16000	14000	9000
8.0	23500	21000	15500	13000	9000
9.0	18200	19800	15000	12100	8800
10.0		16300	14500	11300	8600
11.0		13700	14000	10500	8300
12.0		11700	12400	9700	8000
14.0			9400	8600	7500
16.0			7400	7600	6800
18.0				6000	6000
20.0				4900	5200
22.0				4000	4300
24.0					3500
26.0					2900
28.0					2400
I	0	0	0	0	0
II	0	6.1	12.2	18.3	24.4
falls	12	5	5	3	3
hook	70t main hook				

Unit: kg

working radius (m)	Boom						
	operate in side and rear working area with cylinder I extended completely and outriggers half extended						
	Boom length						
	11.6	15.6	19.6	25.7	31.8	37.9	44.0
3.0	60000	50000	40000				
3.5	50000	45000	40000	28000			
4.0	40000	40000	40000	28000			
4.5	35000	35000	35000	28000	18000		
5.0	32800	32000	31500	27000	18000		
5.5	26500	25700	25200	26000	18000		
6.0	21900	21200	20800	22200	18000	14000	
6.5	18500	17800	17500	18800	18000	14000	
7.0	15800	15200	14900	16200	17000	14000	10000
7.5	13700	13100	12800	14000	14800	14000	10000
8.0	12000	11400	11100	12300	13000	13500	10000
9.0	9300	8800	8500	9700	10400	10900	10000
10.0		6900	6600	7700	8400	8800	9200
11.0		5400	5100	6200	6800	7200	7600
12.0		4200	4000	5000	5600	6000	6400
14.0			2300	3300	3900	4300	4600
16.0				2000	2600	3000	3300
18.0					1700	2100	2300
20.0					1000	1400	1600
22.0						900	1100
I	0	4.0	8.0	8.0	8.0	8.0	8.0
II	0	0	0	6.1	12.2	18.3	24.4
falls	12	9	9	5	5	3	3
hook	70t main hook						

Unit: kg

working radius (m)	Boom					
	operate in side and rear working area with cylinder I and outriggers half extended					
	Boom length					
	11.6	15.6	21.7	27.8	33.9	40.0
3.0	60000	50000				
3.5	50000	45000	28000			
4.0	40000	40000	28000			
4.5	35000	35000	28000	18000		
5.0	32800	32000	27000	18000		
5.5	26500	25700	26000	18000		
6.0	21900	21200	22900	18000	14000	
6.5	18500	17800	19400	17500	14000	
7.0	15800	15200	16700	17000	14000	
7.5	13700	13100	14600	15400	14000	9500
8.0	12000	11400	12800	13600	13500	9500
9.0	9300	8800	10200	10800	11300	9000
10.0		6900	8200	8800	9300	8500
11.0		5400	6700	7300	7700	8100
12.0		4200	5500	6100	6500	6800
14.0			3700	4300	4700	5000
16.0				3000	3400	3700
18.0					2500	2800
20.0					1800	2000
22.0						1400
I	0	4.0	4.0	4.0	4.0	4.0
II	0	0	6.1	12.2	18.3	24.4
falls	12	9	5	5	3	3
hook	70t main hook					

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Rated Lifting Capacity Table

Unit: kg

working radius (m)	Boom				
	operate in side and rear working area without cylinder I extended and with outriggers half extended				
	Boom length				
	11.6	17.7	23.8	29.9	36.0
3.0	60000	28000			
3.5	50000	28000	18000		
4.0	40000	28000	17800		
4.5	35000	28000	17600	14000	
5.0	32800	27000	17400	14000	
5.5	26500	26000	17200	14000	
6.0	21900	23800	17000	14000	9000
6.5	18500	20200	16800	14000	9000
7.0	15800	17500	16500	14000	9000
7.5	13700	15300	16000	14000	9000
8.0	12000	13500	14200	13000	9000
9.0	9300	10800	11400	11800	8800
10.0		8800	9400	9800	8600
11.0		7200	7800	8200	8300
12.0		6000	6600	7000	7200
14.0			4800	5100	5300
16.0			3500	3800	4000
18.0				2900	3100
20.0				2200	2400
22.0				1600	1800
24.0					1300
I	0	0	0	0	0
II	0	6.1	12.2	18.3	24.4
falls	12	5	5	3	3
hook	70t main hook				

Unit: kg

boom angle (°)	Boom + jib (m)			
	operate in side & rear working area with outriggers full extended			
	44.0 + 9.5		44.0 + 16.0	
	0°	30°	0°	30°
80°	5000	3000	3000	1300
78°	4700	2850	2700	1200
76°	4400	2600	2400	1150
74°	4100	2450	2100	1100
72°	3800	2300	1850	1050
70°	3500	2200	1700	1000
68°	3200	2100	1600	970
66°	2800	2000	1500	940
64°	2400	1900	1400	910
62°	2100	1800	1300	880
60°	1850	1650	1200	850
58°	1600	1350	1100	800
56°	1300	1150	1000	750
54°	1000	900	800	
52°	800			
falls				
hook	50t main hook			

Unit: kg

boom angle (°)	Boom + jib (m)			
	operate in side & rear working area with outriggers half extended			
	44.0 + 9.5		44.0 + 16.0	
	0°	30°	0°	30°
80°	4500	2300	2300	1100
78°	4300	2200	2200	1050
76°	4000	2100	2100	1000
74°	3700	2000	2000	950
72°	2950	1900	1900	900
70°	2250	1700	1700	850
68°	1700	1300	1300	800
66°	1200	950	950	700
64°	850	650	650	
falls	1			
hook	50t main hook			

- Note:** 1. Above working condition is when the outriggers extend completely. It is forbidden to lift a load without the support of outriggers.
2. The rated total lifting capacities above the thick line listed in the table are determined by the structural strength, and the others are determined by the stability of the complete vehicle.
3. Set up the 5th outrigger and then it is suitable for 360° operation.
4. The rated lifting capacity in above table is the maximum permitted lifting capacity, which includes the weight of hook (main hook's weight is 550kg and auxiliary hook's weight is 140 kg) and other load handling device.
5. 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.
6. When actual boom length and working radius are between two values in the table, the larger value should be taken to ascertain lifting capacity.
7. 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.