



ZOOMLION QY70V TRUCK CRANE

# TECHNICAL SPECIFICATIONS

QY70V532.2T/27Y

## 2.2 Technical data

	Item	Value	Remarks
Working performance	Max. rated lifting capacity kg	70000	
	Max. load moment of basic boom kN.m	2352	
	Max. load moment of max. length main boom kN.m	1120	
	Max. lifting height of basic boom m	12.2	
	Max. lifting height of main boom m	44.2	These parameters do not include deflection of boom and jib.
	Max. lifting height of jib m	60.2	
Working speeds	Max. hoist rope speed (main winch) m/min	130	Drum 4 <sup>th</sup> layer
	Max. hoist rope speed (auxiliary winch) m/min	110	Drum 2 <sup>nd</sup> layer
	Boom derricking up time s	57	
	Boom telescoping out time s	107	
	Slewing speed r/min	0 – 1.8	
Driving	Max. driving speed km/h	75	
	Max. gradeability %	35	
	Min. turning diameter m	20	
	Min. ground clearance mm	280	
	Oil consumption per hundred kilometers L	46	
Mass	Deadweight in driving condition kg	44000	
	Complete vehicle kerb mass kg	43870	
	Front axle load kg	18000	
	Rear axle load kg	26000	
Dimensions	Overall dimensions (LxWxH) mm	14100 × 2750 × 3750	
	Longitudinal distance between outriggers m	6.00	
	Transversal distance between outriggers m	For completely extended outriggers: 7.60 m; for intermediately extended outriggers: 5.04 m	
	Tail slewing radius mm	4020	
	Main boom length m	11.6 - 44.0	
	Main boom angle °	-2 – 80	
	Jib length m	9.5, 16	
	Offset °	0, 30	

## 2.3 Rated lifting capacity table

This crane is provided with 7 sheets of rated lifting capacity tables. The operator should select proper rated lifting load referring to resp. lifting capacity tables according to actual working conditions. For details, please refer to Table 1 to Table 7.

The values in column "I" refer to the extendable length of telescopic cylinder I.

The values in column "II" refer to 3 times extendable length of telescopic cylinder II, namely, the total extendable length of boom section 3, 4 and 5.

Table 1

Unit: Metric kg

Working radius (m)	Main boom (m)						
	Telescopic cylinder I and outriggers completely extended, over side and over rear						
	11.6	15.6	19.6	25.7	31.8	37.9	44.0
3.0	70000	50000	40000				
3.5	63000	50000	40000				
4.0	56000	47000	40000	28000			
4.5	52000	44000	40000	28000			
5.0	48000	42000	38000	27000			
5.5	43000	39000	36000	26000	18000		
6.0	39000	37000	34000	25000	18000		
6.5	35000	33000	31500	24000	18000		
7.0	30000	28700	28700	23000	18000	14000	
7.5	26500	25000	25000	22000	18000	14000	
8.0	23500	22500	22500	21000	17500	14000	
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		10000	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	1900	2300
28.0						1400	1800
30.0						900	1300
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
Reevings	12	9	9	5	5	3	3
Hook	70 t main hook						

Table 2

Unit: Metric kg

Working radius (m)	Main boom (m)					
	Telescopic cylinder I intermediately extended and outriggers completely extended, over side and over rear					
	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			
5.0	48000	42000	27000	18000		
5.5	43000	39000	26000	18000		
6.0	39000	37000	25000	18000		
6.5	35000	33000	24000	18000	14000	
7.0	30000	28700	23000	17500	14000	
7.5	26500	25000	22000	17000	14000	
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		10000	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
Reevings	12	9	5	5	3	3
Hook	70 t main hook					

Table 3

Unit: Metric kg

Working radius (m)	Main boom (m)				
	Telescopic cylinder I completely retracted and outriggers completely extended, over side and over rear				
	11.6	17.7	23.8	29.9	36.0
3.0	70000	28000			
3.5	63000	28000			
4.0	56000	28000	17800		
4.5	52000	28000	17600		
5.0	48000	27000	17400	14000	
5.5	43000	26000	17200	14000	
6.0	39000	25000	17000	14000	
6.5	35000	24000	16800	14000	
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
Reevings	12	5	5	3	3
Hook	70 t main hook				

Table 4

Unit: Metric kg

Working radius (m)	Main boom (m)						
	Telescopic cylinder I completely extended and outriggers intermediately extended, over side and over rear						
	11.6	15.6	19.6	25.7	31.8	37.9	44.0
3.0	60000	50000	40000				
3.5	50000	45000	40000				
4.0	40000	40000	40000	28000			
4.5	35000	35000	35000	28000			
5.0	32800	32000	31500	27000			
5.5	26500	25700	25200	26000	18000		
6.0	21900	21200	20800	22200	18000		
6.5	18500	17800	17500	18800	18000		
7.0	15800	15200	14900	16200	17000	14000	
7.5	13700	13100	12800	14000	14800	14000	
8.0	12000	11400	11100	12300	13000	13500	
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
Reevings	12	9	9	5	5	3	3
Hook	70 t main hook						

Table 5

Unit: Metric kg

Working radius (m)	Main boom (m)					
	Telescopic cylinder I and outriggers intermediately extended, over side and over rear					
	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			
5.0	32800	32000	27000	18000		
5.5	26500	25700	26000	18000		
6.0	21900	21200	22900	18000		
6.5	18500	17800	19400	17500	14000	
7.0	15800	15200	16700	17000	14000	
7.5	13700	13100	14600	15400	14000	
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
Reevings	12	9	5	5	3	3
Hook	70 t main hook					

Table 6

Unit: Metric kg

Working radius (m)	Main boom (m)				
	Telescopic cylinder I completely retracted and outriggers intermediately extended, over side and over rear				
	11.6	17.7	23.8	29.9	36.0
3.0	60000	28000			
3.5	50000	28000			
4.0	40000	28000	17800		
4.5	35000	28000	17600		
5.0	32800	27000	17400	14000	
5.5	26500	26000	17200	14000	
6.0	21900	23800	17000	14000	
6.5	18500	20200	16800	14000	
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
Reevings	12	5	5	3	3
Hook	70 t main hook				



Table 7

Unit: Metric kg

Main Boom angle (°)	Main boom (m) + Jib (m)			
	Outriggers completely extended, over side and over rear			
	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			
Reeving	1			
Hook	5 t auxiliary hook			

2.4 Lifting height chart

Lifting height chart



