TRUCK CRANE QY80V







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e. No product coating appearance shall be subject to sample.

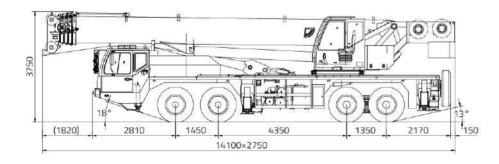




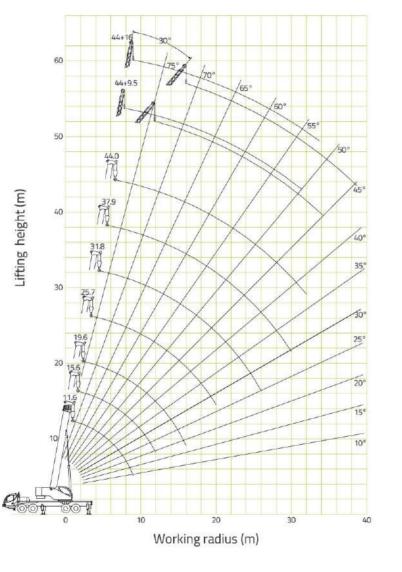
Product Characteristics

- 1. ZOOMLION QY80V truck crane, which integrates our many years' experience in designing and manufacturing mobile cranes with advanced technology, is a new-generation and high-performance product developed to meet the market demands. Its performances, such as lifting height, main boom length, working speed and lifting capacity, have achieved advanced international level.
- 2. This product is a truck crane of full range slewing function, telescopic boom sections and pilot-operated proportional controlled systems. The crane adopts self-manufactured full-width 4-axle special purpose chassis (8×4 drive, offering convenient and flexible hydraulically powered steering), providing wide vision, spacious cab and luxurious equipment.
- 3. The latest directional control valve and tandem pump system ensure that each executive mechanism makes full use of its working capability. The easy-controlled, flexible, reliable and stepless speed regulated joysticks (L / R) can provide the crane with smooth simultaneous movements between "Spool winches up", "Reel winches off", "Derricking", "Slewing" and "Telescope boom in / out", which greatly improve the crane's working efficiency. The safety devices such as relief valve, balance valve, hydraulic lock and brake valve fitted in hydraulic system prevent the accidents caused by oil line overload and oil pipe ruptures.
- 4. The safety devices such as load moment limiter and the complete lighting systems ensure your safety during operation and are convenient for night work.
- 5. This crane has a novel style which makes it beautiful in figure, in form and in color.

Overall View (Unit: Metric mm)



Lifting Height Chart



Technical Data

	Item	Unit	Value	Remarks
	Max. rated lifting capacity	kg	80000	
	Max. load moment of basic boom	N.m	2575	
Working	Max. load moment of max. length main boom	kN.m	1240	
erformance	Max. lifting height of basic boom	m	12.2	
	Max. lifting height of main boom	m	44.2	These parameters do not include
	Max. lifting height of jib	m	60.2	deflection of boom and jib.
	Max. hoist rope speed (Main winch)	m/min	≥135	Drum 4th layer
	Max. hoist rope speed (Auxiliary winch)	m/min	≥110	Drum 2 nd layer
Working speeds	Boom derricking up time	5	57	
	Boom telescoping out time	S	107	
	Max. slewing speed	r/min	1.8	
	Max. driving speed	km/h	75	
	Max. gradeability	%	37	
Driving	Min. turning diameter	m	24	
111-2-2-2-2	Min. ground clearance	mm	280	
	Oil consumption per hundred kilometers	L	46	
	Deadweight in driving condition	kg	45000	
Mass	Complete vehicle kerb mass	kg	44870	
Mass	Front axle load	kg	19000	
	Rear axle load	kg	26000	
	Overall dimensions (L \times W \times H)	mm	14100×2750×3750	
	Longitudinal distance between outriggers	m	6.00	
Dimensions	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	
	Boom angle	0	-2 - 80	
	Jib length	m	9.5, 16	
	Offset	0	O, 30	

Rated Lifting Capacity Table

- This crane is provided with several 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.
- 2. The values in column "I" refer to the extendable length of telescopic cylinder I.
- 3. 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.
- 4. Table 1 Table 7 are the lifting capacity tables for the crane without moveable counterweight:
- Table 8 Table 14 are the lifting capacity tables for the crane with moveable counterweight (2 t).
- 5. The OMs for the data indicated with an asterisk (*) in the lifting capacity tables are as follows:
- With 80 tons hook
- With special device.

Table 1 Unit: Metric kg

Working			1	Main boom (m	1)					
radius (m)	Telescopic cylinder I and outriggers completely extended, over side and over rear									
Vr. At	11.6	15.6	1 9.6	25.7	31.8	37.9	44.0			
3.0	80000*	51000	40000							
3.5	64000	51000	40000							
4.0	56000	51000	40000	28000						
4.5	52000	48000	40000	28000						
	48000	43000	38500	28000						
5.5	43000	40000	36000	26000	18000					
6.0	39000	37000	34000	25000	18000					
	35000	33000	31500	24000	18000					
7.0	30500	29000	29500	23000	18000	16000				
7.5	26500	25000	25000	22000	18000	16000				
8.0	23500	22500	22500	21000	17500	15000				
9.0	18200	18200	18200	19000	16000	14100	10000			
10.0		14700	14700	15300	14500	13300	10000			
11.0		12200	12200	13000	13000	12000	9600			
		10000	10200	11000	11500	11300	9400			
			7100	8200	8800	9600	8300			
16.0			5300	6000	6700	7300	7750			
18.0				4700	5200	5700	6100			
20.0				3500	4000	4500	4800			
22.0					3100	3500	4000			
24.0					2300	2800	3100			
26.0					1700	2200	2500			
28.0						1600	2000			
30.0						1200	1500			
32.0							1200			
	0	4.0	8.0	8.0	8.0	8.0	8.0			
	0	0	0	6.1	12.2	18.3	24.4			
Reevings	12	9	9	5	5	3	3			
			7	0 t main hoo	k					

Unit: Metric kg

Table 2

Working		Main boom (m)										
radius (m)	Telescopic	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	80000*	51000										
3.5	64000	51000	28000									
4.0	56000	51000	28000									
4.5	52000	48000	28000									
5.0	48000	43000	27000	18000								
5.5	43000	40000	26000	18000								
6.0	39000	37000	25000	18000								
6.5	35000	33000	24000	18000	16000							
7.0	30500	29000	23000	17500	14000							
7.5	26500	25000	22000	17000	14000							
8.0	23500	22500	21000	16500	14000	9500						
9.0	18200	18200	19300	16000	14000	9000						
10.0		14700	15600	14500	13000	8500						
11.0		12200	13000	13800	12000	8000						
12.0	1	10000	11000	11700	11000	7700						
14.0			8200	8800	9300	7200						
16.0			6100	6700	7300	6800						
18.0				5200	5900	6100						
20.0				4100	4700	4900						
22.0				3200	3700	3900						
24.0					3000	3200						
26.0					2400	2600						
28.0					1800	2100						
30.0						1600						
32.0						1300						
	0	4.0	4.0	4.0	4.0	4.0						
	0	0	6.1	12.2	18.3	24.4						
Reevings	12	9	5	5	3	3						
Hook			70 t ma	in hook								

Table 3 Unit: Metric kg

Working			Main boom (m)							
radius (m)	Telescopic cylinder I completely retracted and outriggers completely extended, over side and over rear									
1000	11.6	17.7	23.8	29.9	36.0					
3.0	80000*	28000								
3.5	64000	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	30500	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		13800	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				4100	4300					
24.0					3600					
26.0					3000					
28.0					2500					
1	0	0	0	0	0					
T I	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 Table 5

Working radius (m)	Main boom (m)										
	Telescopic cylinder I completely extended and outrigger 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	16000					
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				
					1700	2100	2300				
20.0					1000	1400	1600				
22.0						900	1100				
	0	4.0	8.0	8.0	8.0	8.0	8.0				
	0	0	0	6.1	12.2	18.3	24.4				
	12	9	9	5	5	3	3				
Hook			7	70 t main hool	k	Tue-	14-				

Table 5						Unit: Metric kg				
Working			Main bo	oom (m)						
radius (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							
	32800	32000	27000	18000						
	26500	25700	26000	18000						
6.0	21900	21200	22900	18000						
6.5	18500	17800	19400	17500	16000					
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				
1	0	4.0	4.0	4.0	4.0	4.0				
i i	0	0	6.1	12.2	18.3	24.4				
Reevings	12	9	5	5	3	3				
Hook			70 t ma	in hook		-				

Table 6	Unit: Metric kg	Table 7	
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Working	Main boom (m)									
radius (m)	Telescopic cylinder I completely retracted and outrigger intermediately extended 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					
1	0	0	0	0	0					
#	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
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	Main boom (m) + Jib (m)								
Boom	Outrig	gers completely exter	nded, over side and over rear						
angle	44.0	+ 9.5	44.0 + 16.0						
		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°	1950	1650	1200	850					
	1600	1350	1100	800					
56°	1300	1150	1000	750					
54°	1000	900	800						
52°	800								
Reevings		S.	1						
Hook		5 t auxili	ary hook						

Table 8 Unit: Metric kg

Working radius (m)	Main boom (m)											
	With 2 t moveable counterweight, 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	80000*	51000	40000									
3.5	70000	51000	40000									
4.0	63500	51000	40000	28000								
4.5	56500	48000	40000	28000								
5.0	51500	45000	39000	28000								
5.5	46000	42500	36000	26000	18000							
6.0	41500	38000	34500	25000	18000							
6.5	36500	34000	31500	24000	18000							
7.0	32500	30000	29000	24000	18000	16000						
7.5	27000	26000	25000	22500	18000	16000						
8.0	25500	24500	23300	21500	17500	15000						
9.0	19500	19800	18500	19500	16000	14100	10000					
10.0		16500	15100	17000	14500	13300	10000					
11.0		13500	12200	14300	13000	12000	9600					
12.0		11000	10400	12200	12200	11300	9400					
14.0			7400	9200	9400	9600	8300					
			5300	7000	7300	7800	7500					
				5300	5500	6300	6100					
20.0				4100	4300	5100	5300					
22.0					3350	4100	4500					
24.0					2650	3300	3600					
26.0					2000	2600	2900					
28.0						2000	2350					
30.0						1600	1900					
32.0							1500					
34.0							1000					
	0	4.0	8.0	8.0	8.0	8.0	8.0					
	0	0	0	6.1	12.2	18.3	24.4					
	12	9	9	5	5	3	3					
Hook			7	0 t main hoo	k							

Table 9 Unit: Metric kg

Working	Main boom (m)									
radius (m)	With 2 t moveable counterweight, 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				
	80000*	51000								
3.5	70000	51000	28000							
4.0	63500	51000	28000							
4.5	56500	48000	28000							
5.0	51500	45000	28000	18000						
5.5	46000	42500	26000	18000						
	41500	38000	25000	18000						
6.5	36500	34000	25000	18000	16000					
	32500	30000	24000	17500	14000					
	27000	26000	22500	17000	14000					
8.0	25500	24500	21500	16500	14000	9500				
9.0	19500	19800	20000	16000	14000	9000				
10.0		16500	17500	14500	13000	8500				
		13500	14500	13800	12000	8000				
		11000	12500	13000	11000	7700				
14.0			9400	10000	9300	7300				
16.0			7200	7400	7600	6900				
18.0				6000	6400	6200				
20.0				4800	5300	5000				
22.0				3600	4300	4100				
					3500	3700				
26.0					2800	3000				
28.0					2300	2500				
30.0						1900				
32.0						1600				
	0	4.0	4.0	4.0	4.0	4.0				
	0	0	6.1	12.2	18.3	24.4				
Reevings	12	9	5	5	3	3				
	Į.		70 t ma	in hook						

Table 10 Unit: Metric kg

Working radius (m)			Main boom (m)				
	With 2 t moveable counterweight, 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	80000*	28000					
3.5	70000	28000					
4.0	63500	28000	17800				
4.5	56500	28000	17600				
5.0	51500	27000	17400	16000			
5.5	46000	26000	17200	14000			
6.0	41500	25000	17000	14000			
6.5	36500	24000	16800	14000			
7.0	32500	23000	16500	14000	9000		
7.5	27000	22000	16000	14000	9000		
8.0	25500	21000	15500	13000	9000		
9.0	19500	20000	15000	12100	8800		
10.0		17000	14500	11300	8600		
11.0		13800	14000	10500	8300		
12.0		12000	13000	9700	8000		
14.0			10000	8600	7500		
16.0			7900	7600	6800		
18.0				6500	6000		
20.0				5400	5200		
22.0				4400	4400		
24.0					3700		
26.0					3200		
28.0					2650		
I.	0	0	0	0	0		
II'	0	6.1	12.2	18.3	24.4		
Reevings	12	5	5	3	3		

Table 11 Unit: Metric kg

Working radius (m)	Main boom (m) With 2 t moveable counterweight, telescopic cylinder I completely extended and outriggers intermediately extended, over side and over							
	3.0	60000	50000	40000				
3.5	50000	45000	40000					
	40000	40000	40000	28000				
	35000	35000	35000	28000				
	32800	32000	31500	27000				
	26500	25700	25200	26000	18000			
	21900	21200	20800	22200	18000			
	18500	17800	17500	18800	18000			
	17000	15200	14900	16200	17000	16000		
7.5	14000	13100	12800	14000	14800	14000		
8.0	13000	12700	12300	13500	13000	13500		
9.0	10000	9900	9700	10800	10400	12000	10000	
10.0		7900	7600	8700	9500	9900	9200	
		5900	5800	6800	7400	8000	7600	
12.0		5000	4800	5900	6500	7000	7300	
14.0			3000	4000	4700	5100	5400	
				2600	3400	3800	4100	
18.0					2400	2800	3100	
					1700	2100	2300	
22.0						1500	1700	
	0	4.0	8.0	8.0	8.0	8.0	8.0	
	0	0	0	6.1	12.2	18.3	24.4	
	12	9	9	5	5	3	3	
Hook			7	0 t main hoo	k			

Table 12 Unit: Metric kg

Working radius (m)	Main boom (m)							
	With 2 t moveable counterweight, 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					
	40000	40000	28000					
4.5	35000	35000	28000					
5.0	32800	32000	27000	18000				
5.5	26500	25700	26000	18000				
	21900	21200	22900	18000				
6.5	18500	17800	19400	17500	16000			
	17000	15200	16700	17000	14000			
7.5	14000	13100	14600	15400	14000			
8.0	13000	12700	13800	13600	13500	9500		
9.0	10000	9900	11200	10800	12300	9000		
		7900	9200	9800	10000	8500		
		5900	7500	8100	8500	8100		
12.0		5000	6300	6900	7300	7600		
14.0			4300	4900	5300	5600		
16.0				3500	3900	4500		
18.0					3000	3300		
20.0					2200	2400		
						1800		
	0	4.0	4.0	4.0	4.0	4.0		
	0	0	6.1	12.2	18.3	24.4		
	12	9	5	5	3	3		
Hook			70 t ma	in hook				

Table 13 Unit: Metric kg

Working radius (m)	Main boom (m) With 2 t moveable counterweight, telescopic cylinder I completely retracted and outriggers intermediately extended, over side and over rear						
	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			
5.0	21900	23800	17000	14000			
6.5	18500	20200	16800	14000			
7.0	17000	17500	16500	14000	9000		
7.5	14000	15300	16000	14000	9000		
8.0	13000	14500	14200	13000	9000		
9.0	10000	11800	11400	12000	8800		
10.0		9800	10400	10500	8600		
11.0		8000	8800	8800	8300		
12.0		6800	7400	7800	8000		
14.0			5400	5700	5900		
16.0			4000	4300	4500		
18.0				3400	3600		
20.0				2600	2800		
22.0				2000	2200		
24.0					1700		
1)J	0	0	0	0	0		
TI .	0	6.1	12.2	18.3	24.4		
Reevings	12	5	5	3	3		
Hook	70 t main hook						

Table 14 Unit: Metric kg

	Main boom (m) + Jib (m) With 2 t moveable counterweight, Outriggers completely extended, over side and over rear						
Boom angle							
	70000	+ 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°	1950	1650	1200	850			
58°	1800	1350	1100	800			
56°	1600	1300	1000	750			
54°	1300	1100	900				
52°	1100						
leevings	1						