

ROUGH-TERRAIN CRANE RT60



ZOOMLION

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Features

Maneuverable and robust drive

1. Four-wheel drive and four-wheel disc chassis
2. Fully hydraulic steering system
3. Variable steering modes, front-wheel steer, four-wheel steer and crab steer. Short wheel length and small turning radius provide the crane with maximum maneuverability and flexibility in narrow job sites.

Excellent off-road capability

Big ground clearance and departure / approach angle offer excellent off-road capability.

Strong gradeability

1. Cummins electronically controlled engine, automated transmission and steerable drive axles provide reliable power output
2. Even in the condition of abrupt road resistance, the engine can also be functional
3. Four-wheel drive, hydraulic suspension and special tires optimize the vehicle's drive performance to its maximum, suitable for any backroads and job sites.

Pick-and-carry operations

1. The rough terrain crane has the ability to pick and carry loads, thus improving the working efficiency greatly
2. The crane can also carry out "On time" lifts without extending the outrigger beams in narrow job sites
3. Superior pick-and-carry ability during short-distance transit can bring great convenience to the users.

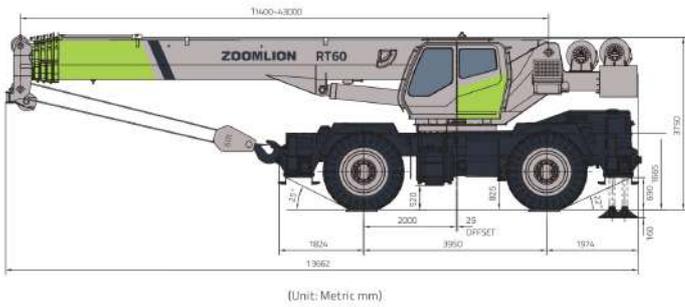
Single cab design

1. Single cab design with large skylight provides large field of view
2. Air-conditioned seat suits to all types of figures, which can relieve the driver's or operator's fatigue, thus improving the working efficiency
3. The crane is fitted with air conditioning, suitable for all-weather work
4. Digital display and keyboard units, advanced data-link technology, error check and audible & acoustic alarm ensure the safety and high efficiency of the operation.

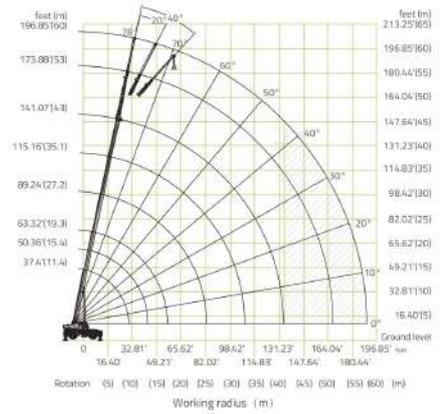
Technical Data

	Item	Unit	Value
Working performance	Max. rated lifting capacity * working radius	kg/m	6000-2.25
	Max. load moment of basic jib	kl/m	1291
	Max. load moment of max. length main boom	kl/m	1158
	Max. lifting height of max. length main boom	m	45.4
Dimensions	Max. lifting height of jib	m	62.1
	Overall dimensions (L * B * H)	mm	12662-3300-3750
	Distance between outriggers (Longitudinal * transverse)	mm	5900-5900
	Main boom length (Completely retracted / completely extended)	mm	11400-43000
	Jib length (to section 1 - jib section 1 + jib section 2)	mm	10000-17000
	Boom angle	°	-3...76
	Swing range		360° (unlimited swing/full range)
Working spaces	Max. hoist rope speed (Main winch)	m/min	110
	Min. boom telescoping out time	s	140
	Min. boom telescoping in time	s	110
	Min. boom derricking up time	s	60
	Min. boom derricking down time	s	55
	Swing speed	r/min	0-2
Hydraulic system	Rated working pressure	MPa	28
	Rated working flow	L/min	400
	Hydraulic oil tank capacity	L	730
Mass	Complete vehicle kerb mass	kg	4430
	Front axle load	kg	2520
	Rear axle load	kg	1910
	Max. driving speed (Forwards / backwards)	km/h	39
Driving	Wheelbase	mm	3650
	Track (Front / Rear)	mm	2405
	Max. gradeability	%	75

Overall View(Unit: Metric mm)



Lifting Height Chart



Lifting height (m)

Main Boom Rated Loads

Use this chart only when all outriggers are fully extended

Table 1

L100 R100A	L200 R200A	L300 R300A	Rated loads on outriggers fully extended-360° Rated load unit kg									
			100° R100	150° R150	200° R200	250° R250	300° R300	360° R360				
3000	3511	4000										
3000	4517	5113	72.3	45000	71.6	30000						
4000	4718	4718	76.3	45000	76.3	30000						
4000	5168	45000	89.2	30000	91.8	32000						
5000	36.7	29100	65.3	31400	71.6	30000	14.8	20040				
5000	13.4	38400	46.3	33300	48.8	29100	75.9	25930				
6000	10.0	30000	61.9	31000	68.1	27000	74.8	23030				
6000	14.6	38400	58.7	30100	65.2	26100	72.3	21840				
7000	4.23	25440	87.5	28900	94.8	24000	72.5	18790	76.8	13300		
7000	3.82	33900	78.7	28100	82.2	23000	71.8	18040	75.7	13300		
8000	2.24	24000	82.9	23100	81.6	22000	73.3	17740	76.9	13300	27.7	2100
8000	2.02	18000	42.6	18000	20.9	17000	68.8	16240	73.2	13300	36.4	8100
943.3	0	16140										
10000			42.8	10000	34.2	10000	63.7	14800	71.8	13300	73.8	8800
10000			75.8	12300	56.3	11000	63.3	13040	69.7	11400	61.6	8100
13000			22.7	16320	46.2	10000	68.8	11000	67.8	10800	72.2	7740
13171		0	8.000									
14000			36.7	2000	33.8	8200	66.3	10600	68.3	10400	68.3	3540
14000			23.9	5100	26.4	8200	60.8	10800	65.4	8200		
17122		15	4200									
18000			44.4	4600	56.7	5700	63.9	6400				
20000			57.8	3700	52.6	4300	60.4	6430				
23000			70.0	2600	48.1	2800	67.3	5500				
24000			78.8	2200	43.7	2000	76.8	4910				
26000			86.5	2100	56.5	2100						
28000			101.7	1670	46.9	1900						
30000			110									
33000			124	160	36.9	1100						
35000			110									

Table 2

L100 R100A	L200 R200A	L300 R300A	Rated loads on outriggers fully extended-360° Rated load unit kg									
			100° R100	150° R150	200° R200	250° R250	300° R300	360° R360				
1	102	12200										
18	161	12100	74.1	9500	77.8	7700						
19	44.8	10670	51.7	8000	55.4	7140						
76	58.3	6260	88.8	8000	71.7	7100	37.9	4330				
20	48.3	7100	81.3	7000	87.8	9900	74.5	4470				
25	17.1	5740	54.5	5000	62.7	5140	74.2	3000	71.8	2560		
30	17.9	4300	66.8	4000	57.6	4370	67.7	2400	73.8	2600	76.3	3010
3000	0	30000										
36			37.8	3200	61.4	3100	64.1	3140	78.3	2070	76.8	8000
40			29.9	2400	45.3	2800	60.4	2800	67.8	2500	71.8	8810
4388		0	20000									
45			38.2	3800	66.5	2100	64.8	3100	69.7	2210		
50			28.4	1610	52.4	1700	63.0	1800	62.6	1670		
55			76.4	1100	45.5	1400	55.1	1510	65.3	1900		
60			8	8210								
69			63.7	1100	66.1	1200	63.0	1270				
95			35.6	3600	53.0	3000	60.1	3100				
70			32.8	2870	43.8	2400	58.3	3070				
75			28.8	5070	66.2	1400	50.8	1670				
80			40.0	2000	62.3	1440	53.3	1600				
89			38.8	3410	50.1	3070						
95			34.5	4510	48.0	1070						
100			28.6	1330	45.1	4300						
110			23.8	1670	42.1	2000						
110			15.6	2400	38.9	2000						
110												

M Jib Rated Loads

Use this chart only when all outriggers are fully extended

Table 3

ROOM RANGE 11	Rated loads on outriggers fully extended-360° Rated load unit kg					
	100° R100	150° R150	200° R200	250° R250	300° R300	360° R360
70	8200	5540	11000	2640	14100	2000
76	11800	4740	13640	2740	15870	2040
76	12610	4300	15300	2540	17300	1900
72	14270	4000	17100	2540	19170	1940
70	16120	3840	18800	2440	20790	1890
68	17800	3640	20670	2340	22380	1840
65	19500	3440	22120	2200	23940	1840
66	21200	3200	23700	2100	25460	1790
62	22800	3000	25320	2140	26960	1700
60	24500	2940	26870	2090	28410	1740
58	26000	2940	28300	2040	29800	1740
56	27600	2700	29800	1990	31250	1740
54	29100	1900	31300	1740	32760	1600
52	30600	1670	32700	1510	33800	1440
50	32070	1400	34050	1310	35110	1250
48	33600	1200	35370	1130	36320	1090
46	34800	1000	36600	970	37400	930
44	36120	870	37800	820	38500	790

Table 4

ROOM RANGE 11	Rated loads on outriggers fully extended-360° Rated load unit kg					
	100° R100	150° R150	200° R200	250° R250	300° R300	360° R360
25.50	11200	2500	6200	46.50	4600	
35.51	10040	64.70	6040	52.00	6400	
41.17	9670	50.43	5820	57.50	4200	
47.18	9010	36.14	5500	62.50	4270	
52.81	8440	41.70	5370	68.20	4160	
58.58	8020	67.70	5100	73.40	4090	
64.17	7580	72.50	5040	78.50	4050	
69.67	7140	77.80	4810	83.50	3940	
75.08	6610	83.07	4710	88.40	3940	
80.39	6400	88.10	4600	93.20	3800	
85.30	5900	93.10	4400	97.80	3800	
90.48	4820	97.90	4300	102.40	3800	
95.65	4740	102.20	4000	106.80	3600	
100.50	3900	107.20	3320	111.00	3100	
105.22	3080	111.70	2880	115.20	2700	
109.80	2640	116.00	2480	119.10	2380	
114.24	2270	120.20	2100	123.00	2090	
118.53	1910	124.20	1800	126.60	1740	

M Jib Rated Loads

Use this chart only when all outriggers are full extended

ROOM ANGLE (°)	Rated loads on outriggers fully extended - 300° Rated load (metric)						Rated loads on outriggers fully extended - 350° Rated load (metric)					
	0° OFFSET		15° OFFSET		45° OFFSET		0° OFFSET		15° OFFSET		45° OFFSET	
	LOAD RADIUS RMM	90° RCL	150° RCL	180° RCL	90° RCL	150° RCL	180° RCL	90° RCL	150° RCL	180° RCL	90° RCL	150° RCL
76	181.75	2610	19580	1350	19700	10500	36.57	3520	51.17	3080	56.63	3290
76	129.16	2390	17961	1340	17534	990	41.08	3190	57.61	2990	70.65	2190
76	140.39	2210	19503	1290	23339	990	47.70	4300	83.99	2840	76.57	3180
73	185.61	2090	21418	1240	25174	940	54.27	4660	70.27	2730	82.40	2070
70	185.22	1940	23365	1190	25855	940	66.77	4270	76.46	2620	88.11	2070
68	204.77	1840	25161	1180	28027	940	81.18	4280	82.35	2620	91.70	2070
66	224.05	1710	26786	1140	30230	890	73.51	3630	88.53	2510	99.18	1950
64	243.81	1610	28771	1090	31840	890	78.79	3610	94.39	2480	106.53	1660
62	263.69	1510	30521	1050	33448	890	85.86	3390	101.13	2400	109.54	1960
60	280.01	1430	32232	1040	34933	890	91.87	3280	105.73	2290	116.81	1960
58	297.96	1390	33961	1040	36493	890	97.76	3060	111.22	2290	119.73	1660
56	316.64	1310	35526	990	37947	840	108.52	2960	118.94	2180	124.90	1660
54	332.69	1250	37105	940	39351	840	109.15	2940	121.74	2180	129.16	1660
52	349.41	1210	38637	940	40708	840	116.64	2730	128.76	2070	133.35	1660
50	365.69	1180	40119	940	42008	840	119.98	2650	131.62	2070	137.62	1660
48	381.68	1070	41590	910	43256	840	125.16	2220	136.33	2008	141.92	1660
46	396.81	860	42922	785	44430	730	130.19	1880	140.84	1770	146.83	1660
44	411.63	720	44250	640	45597	630	135.00	1580	145.16	1420	149.56	1360

Main Boom Rated Loads

Use this chart when outriggers are pinned in the MID-POST IN

ROOM ANGLE (°)	Rated loads on outriggers pinned in the MID-POST IN Rated load (metric)											
	0° OFFSET		15° OFFSET		45° OFFSET		90° OFFSET		135° OFFSET		180° OFFSET	
	LOAD RADIUS RMM	90° RCL	150° RCL	180° RCL	90° RCL	150° RCL	180° RCL	90° RCL	150° RCL	180° RCL	90° RCL	150° RCL
3000	68.5	51951	74.5	45500	77.6	35650						
3750	63.7	45391	72.8	44940	76.1	34800						
4500	62.8	40691	70.3	40190	74.3	31000						
5250	59.8	36700	68.3	36240	73.0	27500						
6000	56.7	33550	66.2	33380	71.4	24800	76.9	28380				
6750	53.4	28370	64.1	27920	69.8	21620	75.9	26590				
7500	50.6	23930	61.6	23320	68.1	17630	74.8	20190				
8250	46.4	20540	58.7	19910	66.5	15420	73.7	18640	72.4	13190		
9000	42.5	17910	57.6	17320	64.8	14870	72.4	17800	70.8	13590		
9750	38.3	15800	55.1	15240	62.2	14360	71.4	16760	70.7	13090		
10500	33.4	14080	52.7	13180	61.4	13020	70.3	16260	70.0	12690	77.3	9190
11250	29.2	11310	47.6	10790	57.9	10340	68.0	11390	73.2	11740	78.4	8190
12000	25.3	9300	42.0	8750	54.2	8790	65.7	9340	71.5	8730	73.0	8090
12750	21.6	7700	36.3	6940	63.3	7790	63.7	8180	61.80	71.6	8190	
13500	17.7	5970	44.2	5630	64.9	6570	67.9	6950	72.2	7140		
14250	14.0	4620										
15000			36.7	3830	65.8	4750	64.3	5140	69.3	5330		
15750			22.9	2560	65.4	2640	60.6	3890	68.4	6020		
16500			9	1690								
17250												
18000												
18750												
19500												
20250												
21000												
21750												
22500												
23250												
24000												

Main Boom Rated Loads

Use this chart only when all outriggers are full retracted.

Table 9

Lift Capacity (kg)	Rated loads on outriggers fully retracted-360° (Rated load unit kg)									
	30°/90°	30°/180°	30°/270°	30°/0°	30°/90°	30°/180°	30°/270°	30°/0°	30°/90°	30°/180°
3000	88.3	4286.0	74.2	3584.0	77.6	3500.0				
3500	85.7	3217.0	72.8	2916.0	76.1	2869.0				
4000	82.8	2371.0	70.3	2299.0	74.5	2239.0				
4500	80.8	1933.0	68.3	1908.0	71.0	1810.0				
5000	84.7	1617.0	66.2	1598.0	71.4	1500.0	76.4	1587.0		
5500	83.4	1379.0	64.1	1317.0	69.8	1200.0	75.9	1360.0		
6000	82.0	1191.0	61.8	1150.0	68.1	1060.0	74.8	1170.0		
6500	84.4	1020.0	61.7	970.0	68.3	910.0	72.1	1020.0	77.4	1017.0
7000	82.5	900.0	57.5	870.0	64.8	807.0	72.5	890.0	76.6	931.0
7500	78.1	790.0	55.1	740.0	61.2	730.0	71.4	790.0	75.7	826.0
8000	75.4	700.0	52.7	650.0	61.4	610.0	70.3	700.0	74.8	730.0
8500	72.1	630.0	50.3	590.0	60.3	560.0	69.8	630.0	73.7	690.0
9000	70.2	570.0	47.6	530.0	57.9	470.0	68.0	560.0	73.2	630.0
9433	0	503.0								
10000		430.0	38.0	430.0	54.2	410.0	63.1	440.0	71.5	480.0
11000		356.0	30.0	356.0	46.3	350.0	61.7	360.0	69.7	400.0
12000		277.0	25.0	277.0	40.2	260.0	60.9	280.0	67.9	320.0
13175		0	193.0							
14000					59.8	170.0	64.3	210.0	69.3	230.0
16000							60.8	190.0	66.4	150.0

Table 10

Lift Capacity (kg)	Rated loads on outriggers fully retracted-360° (Rated load unit kg)										
	30°/90°	30°/180°	30°/270°	30°/0°	30°/90°	30°/180°	30°/270°	30°/0°	30°/90°	30°/180°	
19	58.2	760.0	76.1	7610.0	71.5	7710.0					
22	64.8	6120.0	71.7	5940.0	75.6	5804.0					
15	58.3	4180.0	69.0	3990.0	72.7	3880.0	72.9	4080.0			
20	49.3	2548.0	61.5	2470.0	61.8	2310.0	74.5	2500.0			
25	37.1	1700.0	54.5	1580.0	62.7	1490.0	71.2	1630.0	75.5	1760.0	
30	17.3	1180.0	46.8	1080.0	57.4	990.0	67.7	1100.0	72.9	1260.0	
30.95	0	1100.0									
35			37.9	710.0	51.8	660.0	64.1	650.0	70.3	740.0	
40			25.9	480.0	45.3	420.0	60.4	600.0	67.6	680.0	
43.88		0	310.0								
45					38.2	230.0	56.6	420.0	64.8	500.0	
50						51.5	170.0	62.0	650.0	67.5	130.0
55								58.1	240.0	65.3	280.0

Main Boom Rated Loads

Use this chart during on-TIRE LIFTS

Table 11

Lift Capacity (kg)	Rated loads on tires (Rated load unit kg)											
	30°/90°	30°/180°	30°/270°	30°/0°	30°/90°	30°/180°	30°/270°	30°/0°	30°/90°	30°/180°		
3000	88.3	2100.0	2000.0	2040.0	74.2	2040.0	2070.0	2000.0	77.6	2090.0	2090.0	1950.0
3500	85.7	1650.0	2380.0	1890.0	72.3	1750.0	2350.0	1750.0	76.1	1700.0	2290.0	1710.0
4000	82.8	1260.0	2180.0	1800.0	70.3	1810.0	2080.0	1850.0	74.5	1670.0	2070.0	1510.0
4500	80.8	1070.0	1920.0	1490.0	68.3	15210.0	1810.0	1810.0	71.0	1200.0	1810.0	13010.0
5000	84.7	1210.0	1740.0	1290.0	66.2	11830.0	1810.0	1240.0	71.4	1120.0	16010.0	1210.0
5500	83.4	1070.0	1850.0	1160.0	64.1	10250.0	1540.0	1120.0	69.8	960.0	15040.0	1080.0
6000	82.0	900.0	1450.0	1060.0	61.8	8100.0	1400.0	1010.0	68.1	870.0	13740.0	980.0
6500	84.4	860.0	1330.0	970.0	61.7	8110.0	1280.0	920.0	68.3	780.0	12940.0	890.0
7000	82.5	770.0	1220.0	880.0	57.5	7200.0	1180.0	810.0	64.8	680.0	11520.0	800.0
7500	78.1	690.0	1130.0	810.0	55.1	6210.0	1080.0	740.0	62.7	610.0	10570.0	730.0
8000	75.4	610.0	1040.0	760.0	52.7	5900.0	1010.0	700.0	61.4	560.0	9740.0	660.0
8500	72.1	510.0	900.0	620.0	47.6	4670.0	850.0	570.0	430.0	480.0	8510.0	550.0
9433	0	480.0	830.0	380.0								
10000			42.0	300.0	710.0	4910.0	54.2	330.0	670.0	430.0		
11000			35.6	200.0	500.0	4100.0	30.3	240.0	340.0	380.0		
12000			27.7	210.0	470.0	3420.0	46.2	170.0	440.0	300.0		
14000					36.7	—	280.0	2010.0				
16000							23.9	—	170.0	110.0		

Table 12

Lift Capacity (kg)	Rated loads on tires (Rated load unit kg)											
	30°/90°	30°/180°	30°/270°	30°/0°	30°/90°	30°/180°	30°/270°	30°/0°	30°/90°	30°/180°		
10	58.2	4300.0	3830.0	4430.0	74.1	4430.0	5720.0	4430.0	77.6	4320.0	5030.0	4230.0
12	64.8	3700.0	5050.0	3810.0	71.7	3670.0	4540.0	3700.0	76.1	3560.0	4860.0	3620.0
15	58.3	2807.0	4160.0	3740.0	68.6	2850.0	4300.0	3000.0	72.7	2760.0	3970.0	28010.0
20	49.3	2071.0	3440.0	2300.0	61.5	1900.0	3500.0	2200.0	67.8	1870.0	2960.0	2120.0
25	37.1	1480.0	2450.0	1740.0	54.5	1290.0	23070.0	1640.0	62.7	1300.0	2280.0	1570.0
30	17.3	1000.0	1540.0	1340.0	46.8	1000.0	1800.0	1200.0	57.4	900.0	1700.0	1160.0
30.95	0	1040.0	1670.0	1280.0								
35					37.8	690.0	1300.0	950.0	51.6	630.0	1200.0	800.0
40					25.8	470.0	1020.0	710.0	45.3	410.0	930.0	650.0
45									38.2	220.0	670.0	460.0
50									30.4	—	470.0	370.0
55									16.4	—	110.0	—