ZOOMLION

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ROUGH-TERRAIN CRANE

RT55



ZOOMLION

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ZOOMLION Rough Terrain Crance

Maneuverable and robust drive

1. Four-wheel drive and four-wheel steer chassis;
2. Fully hydraulic steering system;
3. Variable steering modes, front-wheel steer, four-wheel steer and crab steer; Short vehicle 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

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

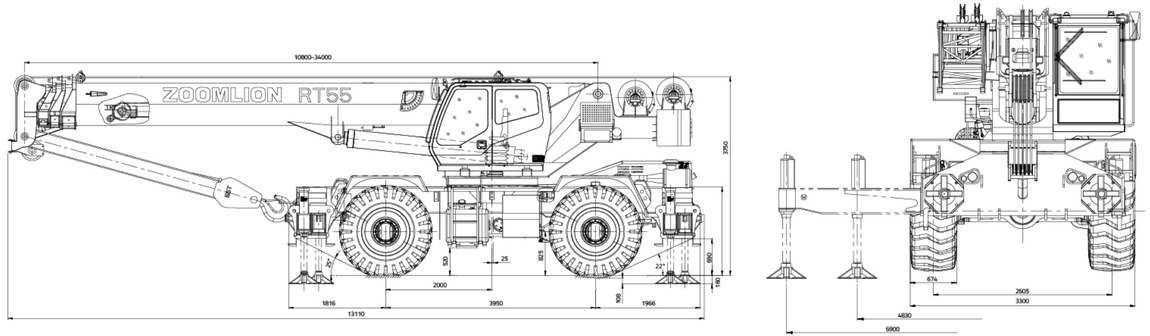
Pick-and-carry operations

1. The rough terrain crane has the ability to pick and carry loads, thus improves the working efficiency greatly.
2. The crane can also carry out "On tires" 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-cushioned seat suits to all types of figures, which can release the driver's or operator's fatigue, thus improves the working effciency;
3. The crane is fitted with air conditioning, suitable for all-weather work;
4. Digital display and keyboard units, advanced data bus technology, error check and audible & acoustic alarm ensure the safety and high effciency of the operation.

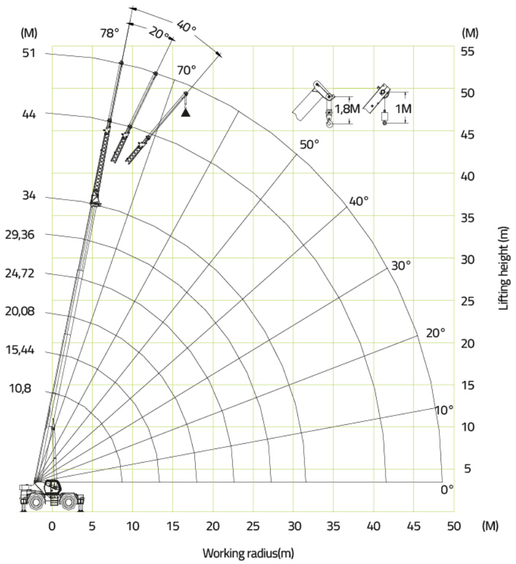
Overall View (Unit: Metric mm)



Technical Data

Item			Value
Work performance	Max. rated lift capacity × work radius	kg.m	55000×3.0
	Max. load moment of basic boom	kN.m	1967
	Max. load moment of fully extended main boom	kN.m	1126
	Max. lift height of fully extended main boom	m	34.8
	Max. lift height of jib	m	52.4
Dimensions	Overall dimensions (L × W × H)	mm	13100×3300×3750
	Outrigger spread (L × W)	mm	6900×6900
	Main boom length (Fully retracted fully extended)	mm	10800 - 34000
	Jib length (Jib section 1, jib sections 1+2)	mm	10000 - 17000
	Boom angle	°	-3 – 78
	Swing range		360° 360° unlimited swing (Full range)
Work speeds	Max. hoist rope speed (Main winch)	m/min	150
	Min. boom extend time	s	80
	Min. boom retract time	s	60
	Min. boom derrick up time	s	60
	Min. boom derrick down time	s	65
	Swing speed	r/min	0 - 2
Hydraulic system	Rated work pressure	MPa	27
	Rated work oil flow	L/min	400
	Hydraulic oil tank capacity	L	730
Mass	Complete vehicle mass	kg	40260
	Front axle load	kg	21420
	Rear axle load	kg	18840
Travel	Max. travel speed (Forwards/backwards)	km/h	39/15
	Wheelbase	mm	3950
	Treads (Front/rear)	mm	2605

Lifting Height Curve



Lifting Capacity Tables

On Outriggers-Fully Extended

10800mm			15440mm			20080mm		
Load Radius (mm)	Boom Angle (deg)	360° (kg)	Load Radius (mm)	Boom Angle (deg)	360° (kg)	Load Radius (mm)	Boom Angle (deg)	360° (kg)
3000	66.82188	55000	3000	74.15385	27200			
3500	63.79711	51300	3500	72.18383	27200			
4000	60.67501	47550	4000	70.18766	27200			
4500	57.43521	43250	4500	68.16176	27200	4500	73.45320	26300
5000	54.05153	39200	5000	66.10209	27200	5000	71.93971	26300
5500	50.48914	35750	5500	64.00410	27200	5500	70.41120	26300
6000	46.69979	32790	6000	61.86258	27200	6000	68.86611	25300
6500	42.61283	30240	6500	59.67150	27200	6500	67.30271	24300
7000	38.11695	27950	7000	57.42379	26450	7000	65.71914	23000
7500	33.01678	25670	7500	55.11107	25000	7500	64.11333	21800
8000	26.90203	22510	8000	52.72319	23200	8000	62.48300	20700
8830	0	17460	9000	47.66896	18510	9000	59.13827	18750
			10000	42.11472	15250	10000	55.66046	15530
			11000	35.79703	12820	11000	52.01762	13100
			12000	28.13419	10960	12000	48.16637	11220
			13000	17.05555	9510	13000	44.04496	9730
			13461	0	9030	14000	39.55953	8530
						16000	28.72872	6720
						18000	7.942309	5470
						18096	o	5460

On Outriggers-Fully Extended

24720mm			29360mm			34000mm		
Load Radius (mm)	Boom Angle (deg)	360° (kg)	Load Radius (mm)	Boom Angle (deg)	360° (kg)	Load Radius (mm)	Boom Angle (deg)	360° (kg)
6000	73.01669	20000						
6500	71.78803	19300						
7000	70.54965	18650						
7500	69.30072	18050	7500	72.71867	15290			
8000	68.04035	17400	8000	71.68465	14750			
9000	65.48147	15790	9000	69.59571	13850	9000	72.50227	10560
10000	62.86449	14500	10000	67.47553	12700	10000	70.71204	10560
11000	60.17938	13300	11000	65.31961	11700	11000	68.90045	10100
12000	57.41409	11410	12000	63.12285	10800	12000	67.06485	9350
13000	54.55386	9920	13000	60.87943	9930	13000	65.20227	8650
14000	51.58021	8700	14000	58.58252	8720	14000	63.30944	8040
16000	45.18939	6860	16000	53.79471	6880	16000	59.41770	7040
18000	37.92679	5540	18000	48.67318	5550	18000	55.35324	5700
20000	29.07979	4540	20000	43.08361	4550	20000	51.06690	4680
22000	15.87627	3790	22000	36.79214	3780	22000	46.48867	3890
22733	0	3610	24000	29.31175	3160	24000	41.51184	3260
			26000	19.16719	2680	26000	35.95735	2740
			27371	0	2470	28000	29.47647	2310
						30000	21.16885	1960
						32000	2.746301	1700
						32009	0	1700

On Outriggers-Mid Position

10800mm			15440mm			20080mm			24720mm			29360mm			34000mm		
Load Radius (mm)	Boom Angle (deg)	360° (kg)	Load Radius (mm)	Boom Angle (deg)	360° (kg)	Load Radius (mm)	Boom Angle (deg)	360° (kg)	Load Radius (mm)	Boom Angle (deg)	360° (kg)	Load Radius (mm)	Boom Angle (deg)	360° (kg)	Load Radius (mm)	Boom Angle (deg)	360° (kg)
3000	66.82	51750	3000	74.15	27200												
3500	63.80	45450	3500	72.18	27200												
4000	60.68	40350	4000	70.19	27200												
4500	57.44	36150	4500	68.16	27200	4500	73.45	26300									
5000	54.05	30380	5000	66.10	27200	5000	71.94	26300									
5500	50.49	24990	5500	64.00	25610	5500	70.41	25880									
6000	46.70	21110	6000	61.86	21680	6000	68.87	21930	6000	73.02	20000						
6500	42.61	18180	6500	59.67	18710	6500	67.30	18950	6500	71.79	19140						
7000	38.12	15870	7000	57.42	16400	7000	65.72	16630	7000	70.55	16800						
7500	33.02	14010	7500	55.11	14540	7500	64.11	14760	7500	69.30	14920	7500	72.72	14900			
8000	26.90	12490	8000	52.72	13000	8000	62.48	13230	8000	68.04	13380	8000	71.68	13370			
8500	18.51	11230	8500	50.25	11700	8500	60.83	11940	8500	66.77	12100	8500	70.64	12080			
8830	0	10610	9000	47.67	10610	9000	59.14	10830	9000	65.48	11000	9000	69.60	10980	9000	72.50	10560
			9500	44.97	9670	9500	57.42	9890	9500	64.18	10050	9500	68.54	10030	9500	71.61	10180
			10000	42.11	8850	10000	55.66	9070	10000	62.86	9220	10000	67.48	9210	10000	70.71	9360
			10500	39.08	8140	10500	53.86	8350	10500	61.53	8500	10500	66.40	8500	10500	69.81	8640
			11000	35.80	7510	11000	52.02	7710	11000	60.18	7860	11000	65.32	7860	11000	68.90	8000
			11500	32.20	6960	11500	50.12	7150	11500	58.81	7300	11500	64.23	7300	11500	67.99	7440
			12000	28.13	6460	12000	48.17	6650	12000	57.41	6790	12000	63.12	6790	12000	67.06	6930
			12500	23.33	6020	12500	46.14	6190	12500	56.00	6330	12500	62.01	6340	12500	66.14	6470
			13000	17.06	5630	13000	44.04	5780	13000	54.55	5920	13000	60.88	5930	13000	65.20	6060
			13461	0	5360	13500	41.86	5410	13500	53.08	5550	13500	59.74	5550	13500	64.26	5680
						14000	39.56	5080	14000	51.58	5200	14000	58.58	5210	14000	63.31	5340
						14500	37.14	4770	14500	50.04	4890	14500	57.41	4900	14500	62.35	5030
						15000	34.55	4480	15000	48.47	4600	15000	56.22	4610	15000	61.38	4740
						15500	31.77	4220	15500	46.85	4340	15500	55.02	4350	15500	60.41	4470
						16000	28.73	3980	16000	45.19	4090	16000	53.79	4100	16000	59.42	4220
						16500	25.32	3760	16500	43.47	3860	16500	52.55	3880	16500	58.42	3990
						17000	21.34	3560	17000	41.70	3650	17000	51.28	3660	17000	57.41	3780
						17500	16.32	3380	17500	39.85	3460	17500	49.99	3470	17500	56.39	3580
						18000	7.94	3220	18000	37.93	3270	18000	48.67	3280	18000	55.35	3390
						18096	0	3230	18500	35.91	3100	18500	47.33	3110	18500	54.30	3220
									19000	33.78	2940	19000	45.95	2950	19000	53.24	3060
									19500	31.51	2790	19500	44.54	2800	19500	52.16	2900
									20000	29.08	2650	20000	43.08	2650	20000	51.07	2760
									20500	26.42	2520	20500	41.59	2520	20500	49.95	2620
									21000	23.47	2390	21000	40.05	2390	21000	48.82	2490
									21500	20.06	2280	21500	38.45	2270	21500	47.67	2370
									22000	15.88	2180	22000	36.79	2160	22000	46.49	2250
									22500	9.77	2080	22500	35.06	2060	22500	45.29	2140
									22733	0	2070	23000	33.25	1950	23000	44.06	2040
												23500	31.34	1860	23500	42.80	1940

On Outriggers-Retracted

10800mm			15440mm			20080mm		
Load Radius (mm)	Boom Angle (deg)	360° (kg)	Load Radius (mm)	Boom Angle (deg)	360° (kg)	Load Radius (mm)	Boom Angle (deg)	360° (kg)
3000	66.82	33990	3000	74.15	27200			
3500	63.80	25270	3500	72.18	25920			
4000	60.68	19890	4000	70.19	20470			
4500	57.44	16240	4500	68.16	16770	4500	73.45	16980
5000	54.05	13570	5000	66.10	14090	5000	71.94	14290
5500	50.49	11540	5500	64.00	12050	5500	70.41	12260
6000	46.70	9950	6000	61.86	10440	6000	68.87	10650
6500	42.61	8670	6500	59.67	9140	6500	67.30	9350
7000	38.12	7620	7000	57.42	8080	7000	65.72	8290
7500	33.02	6750	7500	55.11	7190	7500	64.11	7400
8000	26.90	6020	8000	52.72	6440	8000	62.48	6640
8500	18.51	5390	8500	50.25	5800	8500	60.83	5990
8830	0	5090	9000	47.67	5240	9000	59.14	5430
			9500	44.97	4750	9500	57.42	4940
			10000	42.11	4320	10000	55.66	4500
			10500	39.08	3930	10500	53.86	4120
			11000	35.80	3590	11000	52.02	3770
			11500	32.20	3290	11500	50.12	3460
			12000	28.13	3010	12000	48.17	3180
			12500	23.33	2770	12500	46.14	2920
			13000	17.06	2550	13000	44.04	2690
			13461	0	2420	13500	41.86	2480
						14000	39.56	2290
						14500	37.14	2110
						15000	34.55	1940

On Outriggers-Retracted

24720mm			29360mm			34000mm		
Load Radius (mm)	Boom Angle (deg)	360° (kg)	Load Radius (mm)	Boom Angle (deg)	360° (kg)	Load Radius (mm)	Boom Angle (deg)	360° (kg)
6000	73.02	10820						
6500	71.79	9510						
7000	70.55	8440						
7500	69.30	7540	7500	72.72	7520			
8000	68.04	6780	8000	71.68	6770			
8500	66.77	6130	8500	70.64	6120			
9000	65.48	5570	9000	69.60	5560	9000	72.50	5690
9500	64.18	5080	9500	68.54	5070	9500	71.61	5200
10000	62.86	4640	10000	67.48	4630	10000	70.71	4760
10500	61.53	4250	10500	66.40	4250	10500	69.81	4370
11000	60.18	3900	11000	65.32	3900	11000	68.90	4030
11500	58.81	3590	11500	64.23	3590	11500	67.99	3710
12000	57.41	3310	12000	63.12	3310	12000	67.06	3430
12500	56.00	3050	12500	62.01	3060	12500	66.14	3180
13000	54.55	2820	13000	60.88	2820	13000	65.20	2940
13500	53.08	2600	13500	59.74	2610	13500	64.26	2730
14000	51.58	2400	14000	58.58	2410	14000	63.31	2530
14500	50.04	2220	14500	57.41	2230	14500	62.35	2350
15000	48.47	2050	15000	56.22	2060	15000	61.38	2180

On Tires

10800mm					15440mm				20080mm				24720mm			
Load Radius (mm)	Boom Angle (deg)	360° (kg)	Over Fornt (kg)	Fornt Driving (kg)	Boom Angle (deg)	360° (kg)	Over Fornt (kg)	Fornt Driving (kg)	Boom Angle (deg)	360° (kg)	Over Fornt (kg)	Fornt Driving (kg)	Boom Angle (deg)	360° (kg)	Over Fornt (kg)	Fornt Driving (kg)
3000	66.82	17360	27250	20200	74.15	17900	27520	20600								
3500	63.80	14830	24200	17830	72.18	15360	24650	18250								
4000	60.68	12800	21710	15890	70.19	13300	22150	16350								
4500	57.44	11150	19580	14260	68.16	11700	20040	14710	73.45	11970	20280	14950				
5000	54.05	9790	17780	12850	66.10	10290	18210	13330	71.94	10630	18500	13570				
5500	50.49	8670	16220	11700	64.00	9140	16690	12120	70.41	9460	16950	12370				
6000	46.70	7670	14920	10640	61.86	8160	15350	11070	68.87	8460	15580	11350	73.02	8750	15790	11560
6500	42.61	6850	13560	9690	59.67	7320	14160	10140	67.30	7610	14420	10390	7179	7890	14610	10640
7000	38.12	6110	11890	8920	57.42	6600	12460	9330	65.72	6880	12800	9620	70.55	7150	13070	9800
7500	33.02	5320	10520	8200	55.11	5850	11060	8630	64.11	6170	11390	8860	69.30	6420	11650	9080
8000	26.90	4620	9380	7510	52.72	5130	9900	7970	62.48	5430	10210	8230	68.04	5680	10460	8440
8500	18.51	4020	8420	6960	50.25	4500	8920	7390	60.83	4800	9220	7640	66.77	5040	9460	7840
9000	0	3720	7940	6690	47.67	3960	8080	6850	59.14	4250	8370	7090	65.48	4490	8600	7330
9500					44.97	3490	7350	6330	57.42	3770	7630	6600	64.18	4000	7860	6830
10000					42.11	3070	6710	5690	55.66	3350	6980	5960	62.86	3570	7210	6180
10500					39.08	2700	6160	5130	53.86	2970	6420	5390	61.53	3190	6630	5610
11000					35.80	2370	5660	4640	52.02	2630	5910	4890	60.18	2840	6120	5100
11500					32.20	2080	5220	4200	50.12	2320	5460	4440	58.81	2530	5660	4640
12000					28.13	1810	4830	3810	48.17	2050	5060	4030	57.41	2250	5250	4230
12500					23.33	1570	4470	3460	46.14	1800	4690	3670	56.00	2000	4880	3860
13000					17.06	1360	4160	3150	44.04	1570	4360	3340	54.55	1760	4550	3530
13500					0	1240	3940	2940	41.86	1360	4060	3040	53.08	1550	4240	3220
14000									39.56	1170	3780	2760	51.58	1350	3960	2940
14500									37.14		3530	2510	50.04	1170	3700	2680
15000									34.55		3300	2280	48.47		3460	2440
15500									31.77		3080	2060	46.85		3240	2220
16000									28.73		2880	1870	45.19		3040	2020
16500									25.32		2700	1690	43.47		2850	1830
17000									21.34		2540	1520	41.70		2670	1650
17500									16.32		2380	1370	39.85		2500	1490
18000									7.94		2250	1250	37.93		2350	1330
18500									0		2250	1250	35.91		2210	1190

Lifting Capacity Tables

Outriggers Fully Extended

Boom Angle (deg)	10M Offsetable Jib						17M Offsetable Jib					
	0° Offset		20° Offset		40° Offset		0° Offset		20° Offset		40° Offset	
	Load Radius (mm)	360° (kg)	Load Radius (mm)	360° (kg)	Load Radius (mm)	360° (kg)	Load Radius (mm)	360° (kg)	Load Radius (mm)	360° (kg)	Load Radius (mm)	360° (kg)
78	9436	5500	12915	2840	15703	1990	11036	3290	16994	1440	21769	940
76	11306	5140	14734	2690	17433	1940	13169	2940	19039	1390	23661	890
74	13161	4690	16533	2590	19140	1890	15283	2640	21058	1290	25522	890
72	14997	4340	18310	2490	20821	1840	17376	2390	23049	1240	27349	840
70	16812	4040	20062	2390	22474	1790	19445	2190	25010	1190	29140	840
68	18604	3740	21787	2290	24097	1740	21488	2040	26938	1140	30894	790
66	20372	3540	23483	2190	25688	1740	23503	1890	28830	1090	32607	790
64	22112	3290	25147	2140	27246	1690	25486	1740	30685	1040	34278	740
62	23822	3140	26779	2090	28768	1640	27437	1640	32500	990	35905	740
60	25502	2880	28376	1990	30252	1640	29351	1540	34273	940	37486	740
58	27147	2480	29936	1940	31697	1640	31227	1440	36002	890	39019	690
56	28757	2150	31457	1890	33102	1590	33062	1340	37685	890	40502	690
54	30330	1860	32937	1690	34463	1590	34855	1290	39319	840	41932	690
52	31863	1610	34374	1480	35780	1400	36603	1240	40903	790	43310	690
50	33356	1390	35767	1280	37051	1220	38304	1140	42434	790	44632	640
48	34805	1200	37115	1110	38274	1060	39956	1010	43912	740	45897	640
46	36209	1030	38414	960	39448	920	41556	860	45333	740	47105	640
44	37566	880	39664	820	40572	790	43104	730	46697	660	48252	620