ZOOMLION

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ZOOMLION
ROUGH TERRAIN CRANE
RT35



ZOOMLION

CE ANSI EAC

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- **31m(101.7ft) telescopic boom**
- **2 section jibs, 9m(29.5ft),15m(49.2ft)**
- **Strong lifting capacity with max. lifting moment 1344KN.m(642,255lbf.ft)**
- **Excellent off-road performance**
- **Spacious operator's cab with human-friendly layout**



Robust Cummins QSB6.7 diesel engine (EPA Tier3 / Tier4F)outputs 129KW power and supplies a maximum torque of 799N*m.

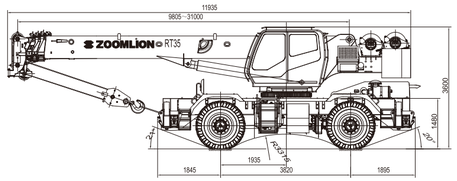


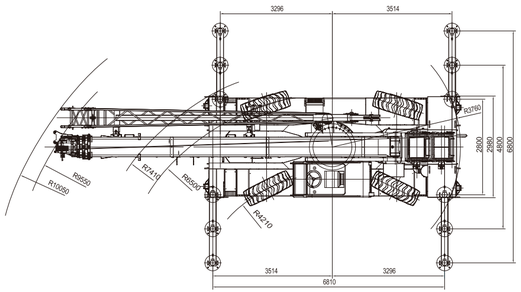
A 6-speed power shift transmission from DANA offers the latest technology for the diverse off-road performance.



AxleTech axles are used to offer the most reliable driving performance, and it can easily handle all wheel steering and crab steering with high maneuverability.

CRANE DIMENSIONS





CRANE AND COMPONENT WEIGHTS

CRANE OPERATING WEIGHTS			
	GROSS Vehicle Weight	Front Axle Load	Rear Axle Load
Kg	32000	15030	16970
Lbs	70548	33135	37412

Hook Detailed Description

Hook Load T	Hook Load USt	No. of Sheaves	No. of Lines	Weight
35	38.5	4	8	330kg 727.5lbs
5.5	6.1	-	1	135kg 297.6lbs

Working speed

	km/h min. MIN.	km/h max. MAX.	%	
20.5-25- 28PR	0~2 km/h 0~1.243miles/h	38/15 km/h 23.61/9.32miles/h	57	6 / R3

Drive	Operation Speed	Rope diameter/length	Max. single line pull
1	150m/min 492.1ft/min	Φ17mm/175m Φ0.669in/574.1ft	70KN 15736.7lbf
2	150m/min 492.1ft/min	Φ17mm/175m Φ0.669in/574.1ft	70KN 15736.7lbf
360	0 ~ 2.5r/min		
	46/47s		
	70/75s		

MAIN BOOM RATED LOADS



MAIN BOOM

360°
(UNIT: KG)



OUTRIGGERS FULLY EXTENDED

BOOM LENGTH	9805 MM		13338 MM		16870 MM		20403 MM	
LOAD RADIUS (MM)	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)
3000	64.7	35000	71.8	20270				
3500	61.3	35000	69.5	20270				
4000	57.7	32950	67.2	20270	72.2	19650		
4500	54.0	29600	64.7	20270	70.4	19650		
5000	50.1	26800	62.3	20270	68.5	19650	72.4	18650
6000	41.3	22400	57.1	20270	64.8	19650	69.4	17100
7000	30.1	19040	51.6	19230	60.9	19650	66.4	15740
8000			45.6	15480	56.8	15680	63.2	14650
9000			38.8	12280	52.5	12460	59.9	12470
10000			30.6	10060	47.9	10210	56.6	10220
11000			19.0	8460	42.9	8570	53.0	8580
12000					37.4	7310	49.3	7320
13000					30.9	6330	45.4	6320
14000					22.6	5540	41.1	5520
15000					6.2	4930	36.4	4870
16000							31.1	4320
17000							24.6	3870
18000							15.6	3490



MAIN BOOM

360°
(UNIT: KG)



OUTRIGGERS FULLY EXTENDED

BOOM LENGTH	23935 MM		27468 MM		31000 MM	
LOAD RADIUS (MM)	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)	BOOM ANGLE (°)	360° (KG)
6000	72.6	14100				
7000	70.1	13050	72.7	11350		
8000	67.5	12200	70.5	10650	72.8	9450
9000	64.8	11450	68.3	10000	70.9	8950
10000	62.1	10340	66.0	9450	68.9	8500
11000	59.3	8680	63.6	8650	66.9	7740
12000	56.4	7410	61.3	7380	64.8	7100
13000	53.4	6410	58.8	6390	62.7	6440
14000	50.3	5600	56.3	5580	60.6	5630
15000	47.0	4940	53.7	4910	58.4	4960
16000	43.6	4380	51.0	4350	56.2	4400
17000	39.8	3900	48.2	3880	53.9	3920
18000	35.8	3500	45.3	3470	51.5	3510
19000	31.2	3150	42.2	3120	49.1	3150
20000	25.9	2850	38.8	2810	46.5	2840
21000	19.1	2590	35.3	2540	43.9	2570
22000	6.9	2390	31.3	2310	41.1	2320
23000			26.8	2100	38.1	2100
24000			21.3	1920	34.9	1910
25000			13.8	1770	31.4	1740
26000					27.4	1580
27000					22.9	1440
28000					17.1	1320
29000					7.1	1230

MAIN BOOM RATED LOADS



MAIN BOOM

360°
(UNIT: LB)



OUTRIGGERS FULLY EXTENDED

BOOM LENGTH	32 FT		44 FT		55 FT		67 FT	
LOAD RADIUS (FT)	BOOM ANGLE (°)	360° (LB)	BOOM ANGLE (°)	360° (LB)	BOOM ANGLE (°)	360° (LB)	BOOM ANGLE (°)	360° (LB)
10	64.4	77000	71.6	44700				
12	60.2	77000	68.8	44700				
15	53.5	64240	64.4	44700	70.1	42590		
20	40.3	48500	56.6	44700	64.4	42590	69.1	37290
25	19.9	36950	48.0	37620	58.4	38100	64.4	33110
30			37.7	26210	51.9	26600	59.5	26610
35			23.5	19670	44.6	19950	54.2	19960
40					36.2	15630	48.6	15640
45					25.3	12640	42.4	12620
50							35.2	10400
55							26.3	8730
60							11.5	7490



MAIN BOOM

360°
(UNIT: LB)

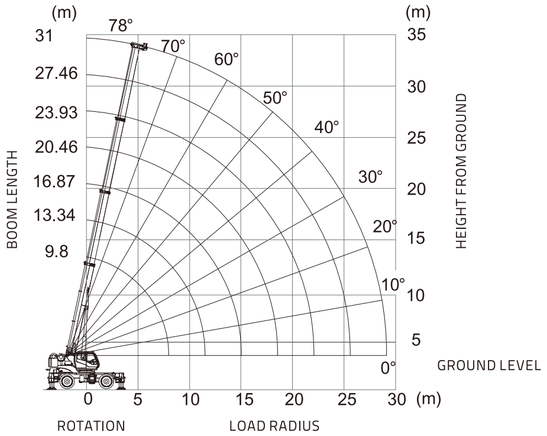


OUTRIGGERS FULLY EXTENDED

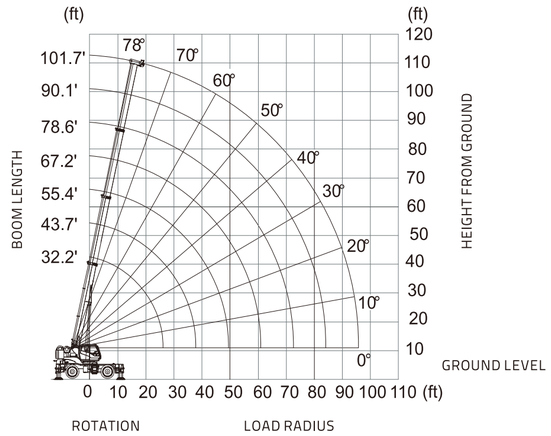
BOOM LENGTH	79 FT		90 FT		102 FT	
LOAD RADIUS (FT)	BOOM ANGLE (°)	360° (LB)	BOOM ANGLE (°)	360° (LB)	BOOM ANGLE (°)	360° (LB)
10						
12						
15						
20	72.4	30800				
25	68.5	27500	71.4	23980		
30	64.4	24970	67.9	21780	70.6	19580
35	60.2	20210	64.4	20020	67.5	17600
40	55.8	15850	60.8	15790	64.4	15400
45	51.2	12800	57.0	12750	61.2	12860
50	46.2	10550	53.1	10500	57.9	10600
55	40.7	8820	48.9	8770	54.5	8870
60	34.5	7470	44.4	7410	50.8	7490
65	27.0	6390	39.5	6310	47.0	6380
70	16.2	5540	34.0	5420	43.0	5460
75			27.5	4680	38.5	4700
80			18.8	4090	33.6	4050
85					27.8	3510
90					20.6	3060
95					7.9	2730

LIFTING HEIGHT CURVE

Lift Height on Outriggers Fully Extended (Unit: Metric Meter)



Lift Height on Outriggers Fully Extended (Unit: Feet)



9 M JIB RATED LOADS



MAIN BOOM

360°
(UNIT: KG)



OUTRIGGERS FULLY EXTENDED

0° OFFSET			20° OFFSET			40° OFFSET		
BOOM ANGLE (°)	LOAD RADIUS (MM)	360° (KG)	BOOM ANGLE (°)	LOAD RADIUS (MM)	360° (KG)	BOOM ANGLE (°)	LOAD RADIUS (MM)	360° (KG)
76	8072	3000	76	10900	1800	76	13127	1100
74	9454	3000	74	12237	1650	74	14387	1050
72	10823	3000	72	13557	1550	72	15628	990
70	12177	3000	70	14858	1450	70	16848	940
68	13514	2850	68	16139	1400	68	18045	940
66	14831	2550	66	17398	1300	66	19217	900
64	16129	2350	64	18633	1250	64	20364	900
62	17404	2150	62	19844	1200	62	21484	850
60	18656	1990	60	21028	1150	60	22576	850
58	19883	1850	58	22184	1100	58	23637	800
56	21084	1700	56	23311	1050	56	24668	800
54	22257	1600	54	24407	990	54	25666	800
52	23400	1500	52	25472	940	52	26631	750
50	24513	1400	50	26503	940	50	27561	750
48	25593	1290	48	27499	900	48	28456	750
46	26640	1160	46	28460	850	46	29313	750
44	27652	1040	44	29383	850	44	30132	700
42	28629	940	42	30269	800	42	30913	700
40	29568	850	40	31116	800	40	31653	700
38	30469	770	38	31922	730	38	32353	700



MAIN BOOM

360°
(UNIT: LB)

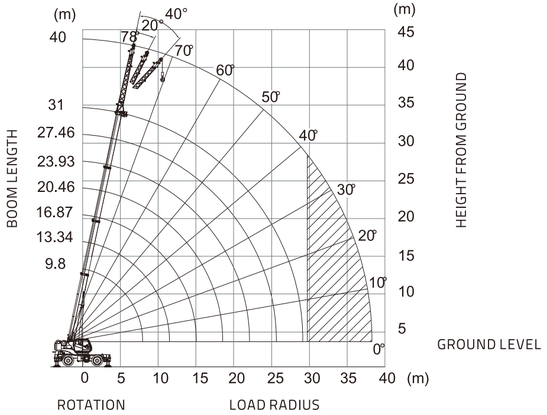


OUTRIGGERS FULLY EXTENDED

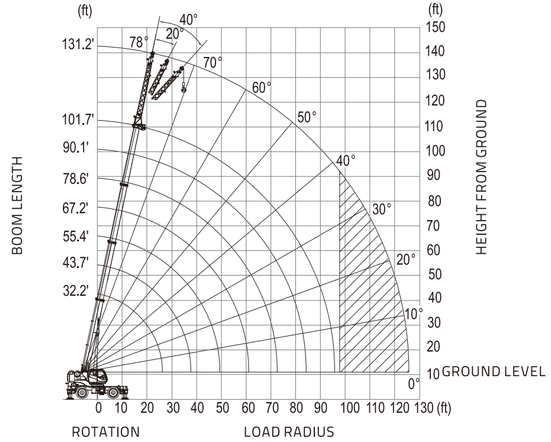
0° OFFSET			20° OFFSET			40° OFFSET		
BOOM ANGLE (°)	LOAD RADIUS (FT)	360° (LB)	BOOM ANGLE (°)	LOAD RADIUS (FT)	360° (LB)	BOOM ANGLE (°)	LOAD RADIUS (FT)	360° (LB)
76	26	6600	76	35	3960	76	43	2420
74	31	6600	74	40	3630	74	47	2310
72	35	6600	72	44	3410	72	51	2200
70	39	6600	70	48	3190	70	55	2090
68	44	6270	68	52	3080	68	59	2090
66	48	5610	66	57	2860	66	63	1980
64	52	5170	64	61	2750	64	66	1980
62	57	4730	62	65	2640	62	70	1870
60	61	4400	60	68	2530	60	74	1870
58	65	4070	58	72	2420	58	77	1760
56	69	3740	56	76	2310	56	80	1760
54	73	3520	54	80	2200	54	84	1760
52	76	3300	52	83	2090	52	87	1650
50	80	3080	50	86	2090	50	90	1650
48	83	2840	48	90	1980	48	93	1650
46	87	2550	46	93	1870	46	96	1650
44	90	2300	44	96	1870	44	98	1540
42	93	2080	42	99	1760	42	101	1540
40	97	1880	40	102	1760	40	103	1540
38	99	1700	38	104	1620	38	106	1540

LIFTING HEIGHT CURVE

Lift Height on Outriggers Fully Extended (Unit: Metric Meter)



Lift Height on Outriggers Fully Extended (Unit: Feet)



15 M JIB RATED LOADS



MAIN BOOM

360°
(UNIT: KG)



OUTRIGGERS FULLY EXTENDED

0° OFFSET			20° OFFSET			40° OFFSET		
BOOM ANGLE (°)	LOAD RADIUS (MM)	360° (KG)	BOOM ANGLE (°)	LOAD RADIUS (MM)	360° (KG)	BOOM ANGLE (°)	LOAD RADIUS (MM)	360° (KG)
76	9764	2400	76	14811	940	76	18785	550
74	11382	2050	74	16348	900	74	20186	550
72	12985	1850	72	17863	800	72	21559	490
70	14569	1650	70	19354	750	70	22905	490
68	16134	1450	68	20819	700	68	24220	450
66	17676	1350	66	22256	650	66	25503	450
64	19195	1200	64	23664	650	64	26754	400
62	20688	1100	62	25041	600	62	27969	400
60	22153	990	60	26386	550	60	29148	400
58	23590	940	58	27695	550	58	30289	350
56	24995	850	56	28969	490	56	31391	350
54	26368	800	54	30205	490	54	32453	350
52	27706	750	52	31403	450	52	33472	350
50	29008	700	50	32559	450	50	34449	350
48	30273	650	48	33674	400	48	35381	300
46	31498	600	46	34746	400	46	36269	300
44	32683	600	44	35773	400	44	37109	300
42	33826	550	42	36754	350	42	37902	300
40	34926	490	40	37688	350	40	38647	300
38	35980	490	38	38574	350	38	39343	300



MAIN BOOM

360°
(UNIT: LB)

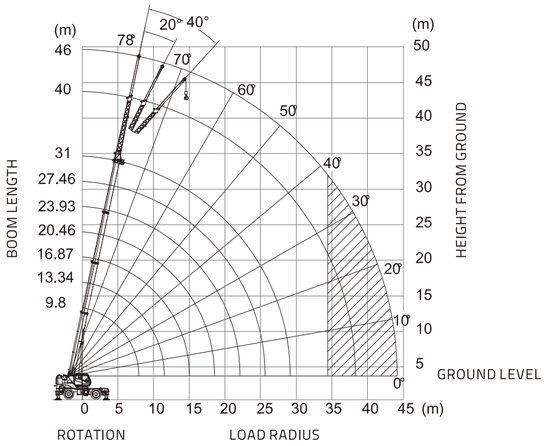


OUTRIGGERS FULLY EXTENDED

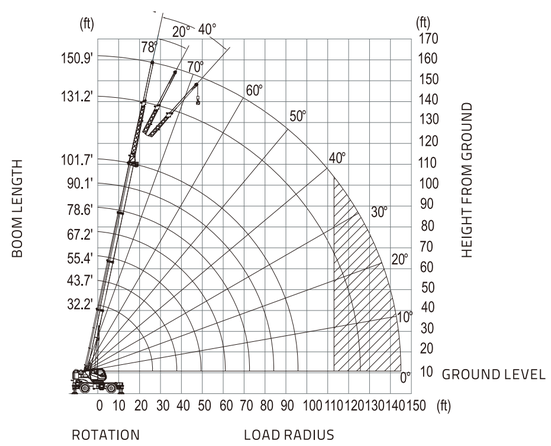
0° OFFSET			20° OFFSET			40° OFFSET		
BOOM ANGLE (°)	LOAD RADIUS (FT)	360° (LB)	BOOM ANGLE (°)	LOAD RADIUS (FT)	360° (LB)	BOOM ANGLE (°)	LOAD RADIUS (FT)	360° (LB)
76	32	5280	76	48	2090	76	61	1210
74	37	4510	74	53	1980	74	66	1210
72	42	4070	72	58	1760	72	70	1100
70	47	3630	70	63	1650	70	75	1100
68	52	3190	68	68	1540	68	79	990
66	57	2970	66	73	1430	66	83	990
64	62	2640	64	77	1430	64	87	880
62	67	2420	62	82	1320	62	91	880
60	72	2200	60	86	1210	60	95	880
58	77	2090	58	90	1210	58	99	770
56	82	1870	56	95	1100	56	102	770
54	86	1760	54	99	1100	54	106	770
52	90	1650	52	103	990	52	109	770
50	95	1540	50	106	990	50	113	770
48	99	1430	48	110	880	48	116	660
46	103	1320	46	113	880	46	118	660
44	107	1320	44	117	880	44	121	660
42	110	1210	42	120	770	42	124	660
40	114	1100	40	123	770	40	126	660
38	118	1100	38	126	770	38	129	660

LIFTING HEIGHT CURVE

Lift Height on Outriggers Fully Extended (Unit: Metric Meter)



Lift Height on Outriggers Fully Extended (Unit: Feet)



TECHNICAL DESCRIPTION

Crane carrier

Engine	Cummins QSB6.7 diesel engine, output 129KW, max. torque 799N*m. Exhaust emissions acc. to EPA Tier3 & Tier4F. Fuel tank 300 litres/68.11gallons.
Transmission	DANA gearbox with 6 forward and 3 reverse gear
Axles	Front: fixed steerable and driven axle with planeary reducer and brake Rear: Floating steerable and driven axle with planeary reducer and brake
Tires	4 tires, tire size: 20.5–25– 28PR
Steering	Hydraulic power steering with four different steering modes
Brakes	Service brake and parking brake
Electrical System	Two sets 12V–120Ah batteries
Frame	ZOOMLION–made 2–axle chassis
Outriggers	H type outriggers, hydraulically extendable horizontal and vertical outriggers. Longitudinal span 6810mm (22.34ft) Horizontal span 6800mm (fully extended) (22.31ft) 4830mm (half extended) (15.84ft) 2800mm (half retracted) (9.18ft)

Crane superstructure

Main boom	5 section U–shape telescoping boom,total length reaches 31m/101.71ft. main boom length: 31m/101.71ft fully extended, 9.8m/32.15ft fully retracted
Jib	2 section lattice jibs(9m/29.53ft, 15m/49.21ft), offset 0° , 20° , 40°
Winch:	Main winch and auxiliary winch are the same with vairable displacement piston motor and planetary reducer
Slewing gear	Hydraulic fixed displacement motor, planetary reducer and slewing bearing
Hydraulic system	Dual various displacement pumps offer power oil to telescoping, derricking and lifting movements. One gear pump output power oil to outriggers, radiator and brake. Hydraulic tank 850Litres.
Operator's cab	Spacious cab with man–machine friendly layout offers a comfortable operating experience. AC and heater.
Safety devices	LMI, limit switch, relief valve, emergency stop button and etc.
Counterweight	4.5T/9920.8lb

RT35 with Tier4F engine is ANSI certificated;
RT35 with Tier3 engine is CE and EAC certificated

Note:
Product specifications are subject to change without notice and obligation. The photographs and/or drawing in this document are for illustrative purposes only. Please consult your local ZOOMLION dealers for more information.

KEY SYMBOLS

	Engine		Brakes
	Axles		Main boom
	Steering		Hook ball
	Gradeability		Hook block
	Tires and wheels		Main and auxiliary winches
	Outrigger system (100%, 50%, 0% extended)		Crane with counterweight
	Swing		Side-stowed jib
	Max. boom length with jib ext.		Distance from the hook to the head
	Load Moment Indicator(LMI)		Tip height
	Transmission		Working radius