

# ZOOMLION ROUGH TERRAIN CRANE ZRT600



**ZOOMLION**

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**4.0**  
PRODUCTS



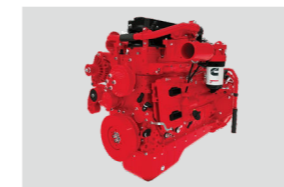
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The ZRT600 features a 45m U-shape telescopic boom. Innovative plate-type boom head and compact boom tail reduces the operating weight of the boom and maximizes lifting performance. Max. lifting moment of basic boom is 2116.8kN.m, and 1197 kN.m for fully extended boom.

Spacious operator's cab offers comfortable and easy operation with less fatigue.



Robust Cummins Q5B6.7 diesel engine (EPA Tier3 / Tier4F) outputs 194KW power and supplies a maximum torque of 990N\*m.

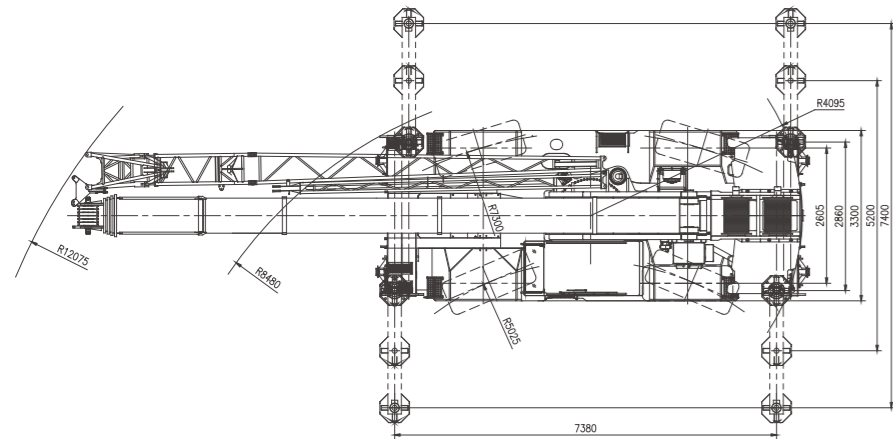
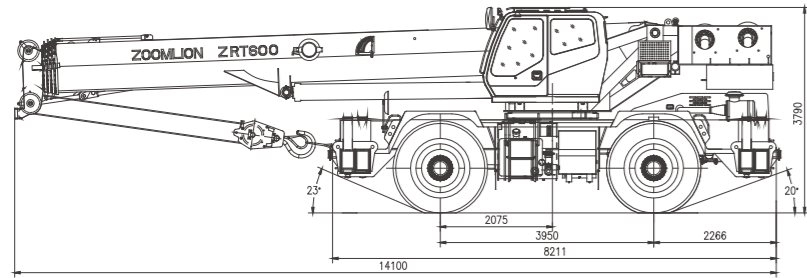


A 6-speed power shift transmission from DANA offers the latest technology for the diverse off-road performance.






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		
CRANE WITH CTWT.	45000	25000	20000

### Hook Detailed Description

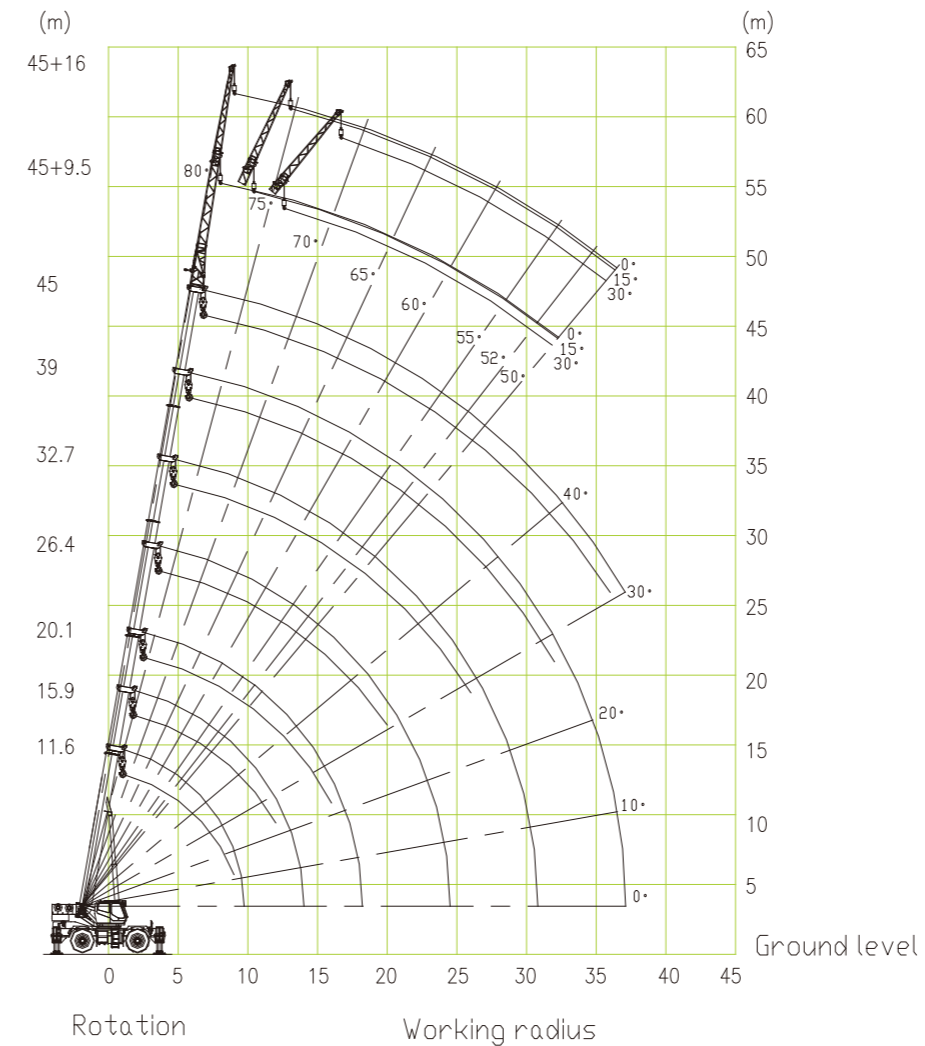
Hook Load T	No. of Sheaves	No. of Lines	Weight Kg
60.0	6	12	510kg
5.5	-	1	150kg

### Working speed

	 km/h min. MIN.	 km/h max. MAX.	 %	
29.5-25-34PR	0-2	40/37	75	6 / R6

Drive	Operation Speed	Rope diameter/length	Max. single line pull
	130m/min	Φ17mm/210m	5600Kg
	130m/min	Φ17mm/130m	5600Kg
	0 ~ 2.4r/min		
	45/125s		
	95/110s		

## LIFTING HEIGHT CURVE



## LIFTING CAPACITY TABLES

Working Radius (mm)	Main boom (m)						
	Cylinder I and outrigger fully extended 7.4m, 360°						
	11.6	15.9	20.1	26.4	32.7	39.0	45.0
3.0	60000	46000	36000				
3.5	57000	46000	36000				
4.0	54000	46000	36000				
4.5	48000	44000	34000	27000			
5.0	43000	42000	33500	27000			
5.5	39000	38500	32500	27000			
6.0	35600	35000	32000	26000	19800		
6.5	32600	32200	30600	25000	19800		
7.0	30100	29800	29500	24000	19800		
7.5	28000	27600	26500	23000	19000		
8.0	26000	25200	24000	22000	18400	14400	
9.0	20200	20000	19500	20000	17000	13600	
10.0		16000	16000	16500	15800	12800	10000
11.0		13200	13000	13600	14000	12000	9600
12.0		11000	11000	11600	12200	11500	9200
14.0			7700	8600	9200	9600	8400
16.0			5500	6500	7100	7500	7600
18.0				5000	5600	5900	6200
20.0				3900	4400	4700	5000
22.0					3500	3800	4100
24.0					2750	3100	3400
26.0					2150	2400	2700
28.0						1900	2150
30.0						1500	1750
32.0						1100	1350
34.0							1050
36.0							750
38.0							
I (m)	0	4.3	8.5	8.5	8.5	8.5	8.5
II (m)	0	0	0	6.3	12.6	18.9	24.9
Reeving	12	10	8	6	4	4	3
Hook	60t Hook						

## LIFTING CAPACITY TABLES

Working Radius (mm)	Main boom (m)					
	Cylinder I half retracted, outrigger fully extended 7.4m, 360°					
	11.6	15.9	22.2	28.5	34.8	40.8
3.0	60000	46000				
3.5	57000	46000	27000			
4.0	54000	46000	27000			
4.5	48000	44000	27000			
5.0	43000	42000	27000	24000		
5.5	39000	38500	27000	24000		
6.0	35600	35000	27000	24000		
6.5	32600	32200	27000	24000	16500	
7.0	30100	29800	27000	23000	16500	
7.5	28000	27600	25500	22000	16000	
8.0	26000	25200	24000	21000	15500	10800
9.0	20200	20000	20500	19000	14500	10400
10.0		16000	17000	17200	13500	10000
11.0		13200	14200	15000	12500	9600
12.0		11000	12300	13000	11600	9200
14.0			9000	9700	9800	8400
16.0			6900	7500	7800	7600
18.0			5300	5900	6200	6700
20.0				4700	5000	5500
22.0				3800	4100	4500
24.0					3300	3700
26.0					2700	3100
28.0					2200	2500
30.0						2100
32.0						1700
34.0						1400
36.0						
38.0						
I (m)	0	4.3	4.3	4.3	4.3	4.3
II (m)	0	0	6.3	12.6	18.9	24.9
Reeving	12	10	6	5	4	3
Hook	60t Hook					

Working Radius (mm)	Main boom (m)				
	Cylinder I fully retracted, outrigger fully extended 7.4m, 360°				
	11.6	17.9	24.2	30.5	36.5
3.0	60000	27000			
3.5	57000	27000			
4.0	54000	27000	24000		
4.5	48000	27000	24000		
5.0	43000	27000	24000		
5.5	39000	27000	23200	18600	
6.0	35600	27000	22500	17900	
6.5	32600	27000	21700	17200	
7.0	30100	27000	21000	16500	11500
7.5	28000	25500	20200	15700	11500
8.0	26000	24000	19500	15000	11500
9.0	20200	22000	18000	13800	11000
10.0		18000	16500	12800	10500
11.0		15000	15500	11800	9800
12.0		12800	13600	11000	9200
14.0		9600	10300	9500	8200
16.0			8100	8300	7200
18.0			6500	6700	6400
20.0				5500	5600
22.0				4600	4800
24.0				3800	4000
26.0					3400
28.0					2900
30.0					2400
32.0					
34.0					
36.0					
38.0					
I (m)	0	0	0	0	0
II (m)	0	6.3	12.6	18.9	24.9
Reeving	12	6	5	4	3
Hook	60t Hook				

Boom angle (°)	Main boom (m) jib (m) Outrigger fully extended 7.4m					
	45+9.5			45+16		
	0°	15°	30°	0°	15°	30°
80	5000	3300	2500	3000	2000	1400
78	5000	3300	2500	3000	2000	1400
76	4800	3200	2500	2900	1800	1300
74	4500	3100	2500	2700	1700	1300
72	4200	3000	2400	2500	1600	1200
70	3900	2800	2300	2300	1500	1200
68	3600	2700	2200	2100	1400	1100
66	3300	2600	2100	2000	1300	1100
64	2800	2500	2000	1900	1300	1100
62	2400	2200	1900	1800	1200	1000
60	2100	2000	1800	1700	1200	1000
58	1800	1600	1600	1400	1100	1000
56	1500	1400	1300	1200	1100	900
54	1200	1200	1200	1000	900	800
52	1000	1000	900	800	700	650
50	800	700	700	650	600	550
Reeving	1					
Hook	60t Hook					

## TECHNICAL DESCRIPTION

Crane carrier	
<b>Engine</b>	Cummins QSB6.7 diesel engine, output 194KW, max. torque 990N*m. Exhaust emissions acc. to EPA Tier3 & Tier4F. Fuel tank 300 litres.
<b>Transmission</b>	DANA gearbox with 6 forward and 6 reverse gear
<b>Axles</b>	Front: fixed steerable and driven axle with planetary reducer and brake Rear: Floating steerable and driven axle with planetary reducer and brake
<b>Tires</b>	4 tires, tire size: 26.5-25-32PR
<b>Steering</b>	Hydraulic power steering with four different steering modes
<b>Brakes</b>	Service brake and parking brake
<b>Electrical System</b>	Two sets 12V-120Ah batteries
<b>Frame</b>	ZOOMLION-made 2-axle chassis
<b>Outriggers</b>	H type outriggers, hydraulically extendable horizontal and vertical outriggers Longitudinal span 7380 mm Horizontal span 7400 mm(fully extended) 5200 mm(half extended) 2860 mm(fully retracted)

## TECHNICAL DESCRIPTION

🔧 Crane superstructure	
<b>Main boom</b>	5 section U-shape telescoping boom, total length reaches 45m. Main boom length: 45m fully extended 11.6m fully retracted
<b>Jib</b>	2 section lattice jibs (9.5m, 16m), offset 0°, 15°, 30°
<b>Winch:</b>	Main winch and auxiliary winch are the same with variable displacement piston motor and planetary reducer
<b>Slewing gear</b>	Hydraulic fixed displacement motor, planetary reducer and slewing bearing
<b>Hydraulic system</b>	Dual variable displacement pumps offer power oil to telescoping, derricking and lifting movements. One gear pump output power oil to outriggers, radiator and brake. Hydraulic tank 850 Litres.
<b>Operator's cab</b>	Spacious cab with man-machine friendly layout offers a comfortable operating experience. AC and heater.
<b>Safety devices</b>	LMI, limit switch, relief valve, emergency stop button and etc.
<b>Counterweight</b>	7.8T





















**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.

## STANDARD EQUIPMENT

- Formed boom
- Offsettable jib 0° - 15° - 30°
- Auxiliary winch
- Cameras
- Auxiliary lifting sheave
- 6 ton hook ball, with hook latch
- Rotation-resistant wire rope
- Deluxe tiltable seat
- Air conditioner/Heater
- Work light package : boom, cab and superstructure
- Revolving amber light
- AM/FM radio
- Battery disconnect switch
- Front and rear lift lugs

**ZRT600 with Tier4F engine is ANSI certified;**  
**ZRT600 with Tier3 engine is CE and EAC certified**

## 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