

ZOOMLION ROUGH TERRAIN CRANE ZRT600V532-1



ZOOMLION

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website:en.zoomlion.com 2024.02.05

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PRODUCTS



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PRODUCT INTRODUCTION

ZRT600V532-1 rough terrain crane is of wide tread, high stability, short wheelbase and small turning radius, which is adapted to tight work space.

It provides 360° swing function, ‘On Tires” Lifts and pick-and-carry operations.

It can be widely used in construction building sites, oil fields, warehouses, freight yards and logistics bases etc., to carry out lifting work, short distance transportation and pick-and-carry operations in narrow working areas.

ZRT600V532-1 rough terrain crane consists of the superstructure and special purpose chassis, including the power system, drive system, suspension system, steering system, brake system, hoist mechanism, derricking mechanism, swing mechanism, boom system, slewing platform, chassis frame, outrigger, hydraulic system, electric system and cab etc.

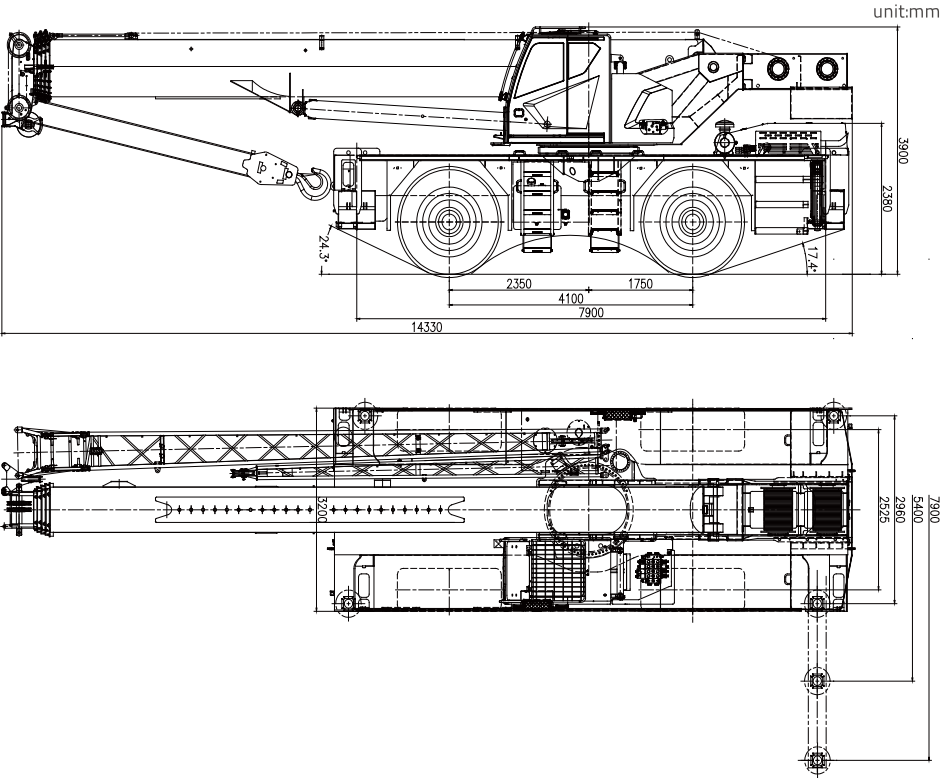
Distinguishing characteristics:

Four steering modes:

- 2-wheel steering (front wheel), 2-wheel steering (rear wheel), 4-wheel steering and Crab steer
- Max. rated lifting capacity: 60 ton at 3 m working radius
- Max. lifting height: 61.6m
- Max. driving speed: 35km/h
- Overall dimensions: 14330 mm×3200 mm×3900mm
- Deadweight: 41 T
- Ability to pick-and carry loads
- Rough terrain travel performance

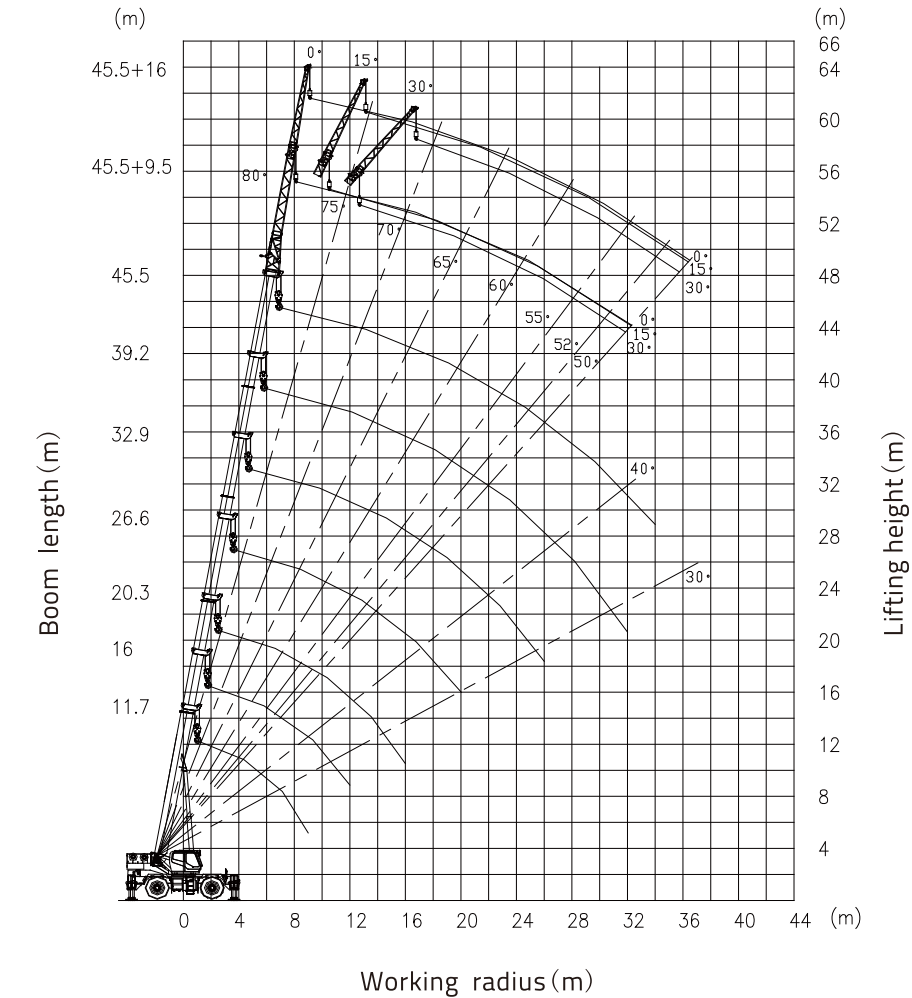
DIMENSIONS

OVERALL VIEW – ZRT600V532-1 ROUGH TERRAIN CRANE




LIFTING HEIGHT CURVE

LIFTING HEIGHT WITH 16M JIB ON OUTRIGGERS FULLY EXTENDED




LIFTING CAPACITY TABLES

RATED CAPACITY CHART WITH BOOM ONLY ON OUTRIGGERS FULLY EXTENDED



BOOM

360° slewing
(UNIT: KG)




OUTRIGGERS FULLY
EXTENDED

Working radius (m)	TELESCOPIC CYLINDER I FULLY EXTENDED, outriggers fully extended, 5t counterweight						
	11.7	16	20.3	26.6	32.9	39.2	45.5
3.0	60000	46000	35000				
3.5	58000	46000	35000				
4.0	56000	46000	35000				
4.5	53000	44000	33000	25000			
5.0	47000	42000	32000	25000			
5.5	42000	40000	32000	24000			
6.0	37500	36500	31000	24000	20500		
6.5	35000	34300	29000	23000	20500		
7.0	31000	31000	28000	22500	20000		
7.5	29000	29000	27000	21000	19000	14500	
8.0	27000	27000	25500	20500	18500	13500	
9.0	21000	20500	20000	17500	17000	13000	10000
10.0		16500	16000	16500	15500	11500	9600
11.0		13400	13200	13600	14000	11000	9300
12.0		11000	11000	12100	11800	10000	9100
14.0			7800	8800	9400	9000	8200
16.0			5600	6700	7300	7400	7400
18.0				5200	5800	6100	6200
20.0				4000	4600	4900	5200
22.0					3600	4000	4300
24.0					2800	3200	3500
26.0					2150	2600	2800
28.0						2100	2300
30.0						1600	1900
32.0						1200	1500
34.0							1100
36.0							
I(m)	0	4.3	8.6	8.6	8.6	8.6	8.6
II(m)	0	0	0	6.3	12.6	18.9	25.2
Reeving	12	10	8	6	4	4	3
Hook	60t						


LIFTING CAPACITY TABLES

RATED CAPACITY CHART WITH BOOM ONLY ON OUTRIGGERS FULLY EXTENDED



BOOM


360° slewing
(UNIT: KG)



OUTRIGGERS FULLY
EXTENDED

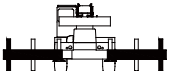
Working radius (m)	TELESCOPIC CYLINDER I INTERMEDIATELY EXTENDED, outriggers fully extended, 5t counterweight					
	11.7	16	22.3	28.6	34.9	41.2
3.0	60000	46000				
3.5	58000	46000				
4.0	56000	46000	25000			
4.5	53000	44000	25000			
5.0	47000	42000	25000	21000		
5.5	42000	40000	25000	21000		
6.0	37500	36500	24000	21000	14500	
6.5	35000	34300	24000	21000	14500	
7.0	31000	31000	23500	20000	13800	
7.5	29000	29000	23500	20000	13300	
8.0	27000	27000	24000	19000	12800	10000
9.0	21000	20500	20200	17500	14500	9800
10.0		16500	16600	16300	12000	9200
11.0		13400	13800	14400	10300	8500
12.0		11000	11500	12200	9600	7900
14.0			8600	9200	8400	6900
16.0			6600	7200	7500	7600
18.0			5100	5700	6000	6100
20.0				4600	4900	5200
22.0				3700	4100	4300
24.0					3400	3600
26.0					2800	3100
28.0					2300	2600
30.0						2200
32.0						1800
34.0						1500
I(m)	0	4.3	4.3	4.3	4.3	4.3
II(m)	0	0	6.3	12.6	18.9	25.2
Reeving	12	10	8	6	4	3
Hook	60t					

RATED CAPACITY CHART WITH BOOM ONLY ON OUTRIGGERS FULLY EXTENDED



BOOM

360° slewing
(UNIT: KG)



OUTRIGGERS FULLY
EXTENDED

Working radius (m)	TELESCOPIC CYLINDER I FULLY RETRACTED, outriggers fully extended, 5t counterweight				
	11.7	18	24.3	30.6	36.9
3.0	60000				
3.5	58000				
4.0	56000	25000			
4.5	53000	25000	21500		
5.0	47000	25000	21500		
5.5	42000	24000	20000	14500	
6.0	37500	23000	19000	14500	
6.5	35000	23000	18000	13000	
7.0	31000	22800	18000	13000	10500
7.5	29000	22000	17000	12000	10500
8.0	27000	21600	16500	12000	10500
9.0	21000	21000	15500	11000	10000
10.0		17200	14600	10000	8800
11.0		14300	13600	9200	8200
12.0		12100	13000	8500	7500
14.0		9100	9300	7500	8200
16.0			7800	6700	6500
18.0			6200	6000	5100
20.0				5300	4600
22.0				4500	4100
24.0				3700	3700
26.0					3400
28.0					2900
30.0					2400
32.0					
34.0					
I(m)	0	0	0	0	0
II(m)	0	6.3	12.6	18.9	25.2
Reeving	12	6	5	4	3
Hook	60t				

NOTES

- a)Crane load ratings are based on the crane being leveled and standing on a firm and uniform supporting surface.
- b)Crane load ratings on outriggers are based on all outrigger beams being positioned according to the applicable lift chart and the tires raised free of the supporting surface.
- c)CRANE LOAD RATINGS MUST NOT BE EXCEEDED. DO NOT ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.
- d)Lift the load vertically. Do not pull the load at an angle.
- e)When either radius or boom length, or both, are between listed values, the smaller of the two listed load ratings shall be used.
- f)Do not operate at longer radii than those listed on the applicable lift chart (cross hatched areas shown on range diagrams) as tipping can occur without a load on the hook.
- g)The boom angles shown on the lift charts give an approximation of the operating radius for a specified boom length. The boom angle, before loading, should be greater to account for boom deflection.
- h)Rated loads include the weight of hook block, slings, and auxiliary lifting devices. Their weights shall be subtracted from the listed rated load to obtain the net load that can be lifted.
- i)Consult appropriate section of the Operator’s Manual for more exact description of hoist line reeving.
- j)Properly maintained wire rope is essential for safe crane operation. Consult the Operator’s Manual and Maintenance Manual for proper maintenance and inspection requirements.
- k)When the rotation-resistant wire rope is used, the allowable rope loading shall be the breaking strength divided by five (5), unless otherwise specified by the wire rope manufacturer.
- l)When an anti-twist wire rope is used, unless otherwise specified, the permissible load of the wire rope should be a fifth of the tensile strength.
- m)The user shall operate at reduced ratings to allow for adverse job conditions, such as: soft or uneven ground, out of level conditions, high winds, side loads, pendulum action, jerking or sudden stopping off loads, hazardous conditions, experience of personnel, two-machine lifts, traveling with loads, electric wires, etc, (side pull on boom or jib is hazardous). If the wind speed is higher than the maximum permissible value (45 ft/s (13.8 m/s), grade 6) or it is fulminous during crane operation, stop the work, fully retract the boom and correctly stow the boom.
- n)Load ratings are dependent upon the crane being maintained according to the Operator’s Manual and Maintenance Manual.

LIFTING CAPACITY TABLES

RATED CAPACITY CHART WITH BOOM + 9.5M JIB ON OUTRIGGERS FULLY EXTENDED



Boom + 9.5m jib

360° slewing
(UNIT: KG)




OUTRIGGERS FULLY
EXTENDED

Boom angle (°)	Outriggers fully extended, 5t counterweight		
	0°	15°	30°
80	5000	3300	2500
78	4600	3300	2500
76	4300	3200	2500
74	4000	3100	2500
72	3600	2900	2400
70	3300	2700	2300
68	3100	2600	2200
66	2900	2500	2100
64	2700	2400	2000
62	2400	2200	1900
60	2100	2000	1800
58	1900	1700	1600
56	1600	1500	1400
54	1400	1300	1200
52	1200	1100	1000
50	1000	900	900
Reeving	1		
Hook	5t		

LIFTING CAPACITY TABLES

RATED CAPACITY CHART WITH BOOM + 16M JIB ON OUTRIGGERS FULLY EXTENDED



Boom + 16m jib

360° slewing
(UNIT: KG)



OUTRIGGERS FULLY
EXTENDED

Boom angle (°)	Outriggers fully extended, 5t counterweight		
	0°	15°	30°
80	2800	1600	1200
78	2500	1500	1150
76	2300	1450	1100
74	2100	1400	1050
72	1900	1300	1000
70	1800	1250	1000
68	1700	1200	1000
66	1600	1150	1000
64	1500	1100	950
62	1400	1050	900
60	1700	1000	900
58	1300	1000	900
56	1200	950	850
54	1100	900	800
52	950	800	750
50	850	750	700
Reeving	1		
Hook	5t		

NOTES

- a)Crane load ratings are based on the crane being leveled and standing on a firm and uniform supporting surface.
- b)Crane load ratings on outriggers are based on all outrigger beams being positioned according to the applicable lift chart and the tires raised free of the supporting surface.
- c)CRANE LOAD RATINGS MUST NOT BE EXCEEDED. DO NOT ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.
- d)Lift the load vertically. Do not pull the load at an angle.
- e)When either radius or boom length, or both, are between listed values, the smaller of the two listed load ratings shall be used.
- f)Do not operate at longer radii than those listed on the applicable lift chart (cross hatched areas shown on range diagrams) as tipping can occur without a load on the hook.
- g)The boom angles shown on the lift charts give an approximation of the operating radius for a specified boom length. The boom angle, before loading, should be greater to account for boom deflection.
- h)Rated loads include the weight of hook block, slings, and auxiliary lifting devices. Their weights shall be subtracted from the listed rated load to obtain the net load that can be lifted.
- i)Consult appropriate section of the Operator’s Manual for more exact description of hoist line reeving.
- j)Properly maintained wire rope is essential for safe crane operation. Consult the Operator’s Manual and Maintenance Manual for proper maintenance and inspection requirements.
- k)When the rotation-resistant wire rope is used, the allowable rope loading shall be the breaking strength divided by five (5), unless otherwise specified by the wire rope manufacturer.
- l)When an anti-twist wire rope is used, unless otherwise specified, the permissible load of the wire rope should be a fifth of the tensile strength.
- m)The user shall operate at reduced ratings to allow for adverse job conditions, such as: soft or uneven ground, out of level conditions, high winds, side loads, pendulum action, jerking or sudden stopping off loads, hazardous conditions, experience of personnel, two-machine lifts, traveling with loads, electric wires, etc, (side pull on boom or jib is hazardous). If the wind speed is higher than the maximum permissible value (45 ft/s (13.8 m/s), grade 6) or it is fulminous during crane operation, stop the work, fully retract the boom and correctly stow the boom.
- n)Load ratings are dependent upon the crane being maintained according to the Operator’s Manual and Maintenance Manual.

LIFTING CAPACITY TABLES

RATED CAPACITY CHART FOR LIFT ON TIRES

Boom length(m)	11.7		18		24.3		30.6	
Working radius(m)	360°	Travel with load over front	360°	Travel with load over front	360°	Travel with load over front	360°	Travel with load over front
3.0	13500	14,000	13800	13500				
3.5	11200	12500	11600	12000				
4.0	10000	11000	10500	10800	10600	10500		
4.5	8500	10000	8800	9800	9000	10000	9200	10200
5.0	7500	9000	8000	8600	8500	8800	8600	9000
5.5	6200	8000	7000	7500	7800	8000	7800	8000
6	5500	7000	6000	6500	6200	6500	6400	6700
7	4200	6000	5000	5500	5200	5600	5300	5700
8	3000	5000	4000	4800	4500	5000	4500	5100
9	2300	4,000	3000	4000	3200	4200	3500	4300
10			2300	3000	2500	3200	2500	3200
11			1800	2600	2000	2800	2200	2800
12			1500	2300	1500	2300	1600	2400
14						1200		1200
16								
I(m)	0		0		0		0	
II(m)	0		6.3		12.6		18.9	
Reeving	12		10		8		6	
Hook	60t							

Note: 360° in the above chart is for the crane to stand still.

NOTES

a)Crane load ratings are based on the crane being leveled and standing on a firm and uniform supporting surface.

b)CRANE LOAD RATINGS MUST NOT BE EXCEEDED. DO NOT ATTEMPT TO TIP THE CRANE TO DETERMINE ALLOWABLE LOADS.

c)Lift the load vertically. Do not pull the load at an angle.

d)When either radius or boom length, or both, are between listed values, the smaller of the two listed load ratings shall be used.

e)The boom angles shown on the lift charts give an approximation of the operating radius for a specified boom length. The boom angle, before loading, should be greater to account for boom deflection.

f)Rated loads include the weight of hook block, slings, and auxiliary lifting devices. Their weights shall be subtracted from the listed rated load to obtain the net load that can be lifted.

g)Crane load ratings on tires depend on appropriate inflation pressure and tire condition. Caution must be exercised when increasing air pressures in tires. Consult the Operator’s Manual for precautions.

h)Use of jib is not permitted for pick-and-carry operations.

i)For pick-and-carry operations, the boom must be centered over the front of the crane with the swing brake lock engaged. Use minimum boom point height and keep the load close to the ground surface. Travel must be on smooth level surface.

j)The load should be restrained from swinging.

k)Creep speed is crane movement of less than 200 ft (61 m) in 30-minutes period and not exceeding 0.9 mph (1.44 km/h).

l)Consult appropriate section of the Operator’s Manual for more exact description of hoist line reeving.

m)The use of more parts of line than required by the load may result in having insufficient rope to allow the hook block to reach the ground. Choose the correct line parts to get a rope in the proper length. Refer to Table 1.1.

n)Properly maintained wire rope is essential for safe crane operation. Consult the Operator's Manual and Maintenance Manual for proper maintenance and inspection requirements.

o)When the rotation-resistant wire rope is used, the allowable rope loading shall be the breaking strength divided by five (5), unless otherwise specified by the wire rope manufacturer.

p)The user shall operate at reduced ratings to allow for adverse job conditions, such as: soft or uneven ground, out of level conditions, high winds, side loads, pendulum action, jerking or sudden stopping off loads, hazardous conditions, experience of personnel, two-machine lifts, traveling with loads, electric wires, etc, (side pull on boom or jib is hazardous). If the wind speed is higher than the maximum permissible value (45 ft/s (13.8 m/s), grade 6) or it is fulminous during crane operation, stop the work, fully retract the boom and correctly stow the boom.

q)Load ratings are dependent upon the crane being maintained according to the Operator's Manual and Maintenance Manual.

SPECIFICATIONS, SUPERSTRUCTURE

Superstructure

Boom and telescoping mechanism

- The box-shaped boom consists of 5 U-type boom sections made of high-strength steel.
- The boom head is equipped with 6 sheaves, which is convenient for changing line parts without removing the wedges. The rooster sheave is optional.
- The telescopic boom sections are telescoped in / out via two telescopic cylinder and two sets of boom extension / retraction ropes. The telescopic cylinder is equipped with a plunge-jointed balance valve.
- Min. boom length (with telescopic sections completely retracted): 11700mm.
- Max. boom length (with telescopic sections completely extended): 45500mm.
- Min. telescoping out time: about 78s.

Jib

- It consists of two jib sections. The jib section II is secured into the jib section I, and the whole jib is side stowed with the boom via moveable pins during driving.
- A sheave is assembled at the jib head.
- Jib angle: 0° , 15° and 30° .
- Jib length: 9.5m – 16 m.

Derricking mechanism

- Rear-mounted single derricking cylinder with derricking balance valve.
- Derrick angle: -2° - 80°.
- Derrick speed: -2° - 80° /47s.

Hoist mechanism

- Main and auxiliary winches.
- Main and auxiliary winches are equipped with the same spare parts, including Variable-displacement hydraulic motor with axial plunger and planetary reducer. The hydraulic motor drives the winch with a planetary reducer. When the winch turns (rotates), the wire rope reels off or spools on to the winch.
- Wire rope.
- Twist resistant wire ropes are used; high strength wire ropes are optional.
- Max. hoist rope strength: 52kN .
- Max. hoist rope speed: 145 m/min (At the 4th layer).
- Rope diameter: Φ17mm.
- Main winch rope length: 230m.
- Auxiliary winch rope length: 140 m.
- Hook block.
- Rotatable main hook: 60 t, with 6 sheaves and hook latch, secured at the chassis frame in front of slewing platform.
- Rotatable auxiliary hook: 5 ton, with hook latch, used for the rooster sheave and jib, secured at auxiliary hook holder on the chassis frame.

Slewing mechanism

- It consists of hydraulic motor, planetary gear reducer, pinion gear and swing bearing etc. Via the planetary gear reducer, the hydraulic motor drives the pinion gear to rotate and makes the swing bearing outer ring rotate around its inner toothed ring fixed on chassis frame, providing superstructure with 360° unlimited swing.
- Hydraulically controlled usually-closed brake, with a swing function that you can control and a pneumatic swing lockout device.
- Slewing speed: 0 - 2.5 r/min.

Slewing platform

- The slewing platform adopts a wall structure.

Hydraulic system

- Oil pump.
- The two variable pumps together supply hydraulic oil to the telescoping, derricking and hoist mechanisms. Moreover, the two pumps also supply pilot oil.
- One gear pump supplies hydraulic oil to outriggers, braking system, oil radiator of chassis torque converter, and superstructure AC.
- The other gear pump supplies hydraulic oil to the slewing and steering systems.
- Control valve.
- A quadruple multi-way directional valve which adopts downstream pressure compensation technology.
- Pipeline.
- An air-cooled hydraulic oil cooler driven by an electric motor is located in the return line.
- The system pressure can be displayed on the instrument console. There are pressure test ports configured in hydraulic lines.
- Hydraulic oil tank
- Capacity: about 800 L.
- The return oil filter can eliminate bubbles. The filtering accuracy is 10um.

Crane controls

- The superstructure movements are controlled by two hydraulic joysticks (with a cross shaft) on both sides of operator’s seat (complying with ISO standard requirements).
- The left joystick controls slewing and auxiliary winch movements.
- The right joystick controls derricking and main winch movements.
- Derricking and telescoping movements can be executed simultaneously.

Cab

- There is only one cab for ZRT600V532-1rough terrain crane. It can be used as the operator's cab as well as the driver’s cab. The cab is side-mounted and adopts left hand drive.
- There are two control boxes on the both sides of operator’s seat. The left / right control box can be pulled up. Controls of the superstructure are arranged according to the requirements of ASME B30.5-2007 standard and comply with ISO (International Organization for Standardization) standard.
- Cab dimensions:
- Length: 1810 ± 5 mm.
- Width: 1050 ± 5 mm.
- Height: 1710 ± 5 mm.

Rated capacity indicator (RCI)

- If the actual load approaches the rated one, the buzzer sends out visual and audible warning.
- If the actual load reaches the rated one, all dangerous movements are switched off automatically.
- The rated capacity indicator can also limit the working range (including working radius, boom angle, lifting height and slewing range etc.).
- The following information can be displayed on the screen:
- Boom angle or moment ratio;
- Boom length or default hook weight;
- Actual working radius or slewing angle;
- Actual lifting capacity;
- Max. permissible lifting capacity;
- Jib installation angle or wire rope reeving;
- Boom status indication;
- Outrigger status or ‘On Tires” indication.
- The following information is displayed by bar graph:
- Percentage of actual lifting capacity to the rated one or working pressure of the hydraulic system.

SPECIFICATIONS, SPECIAL PURPOSE CHASSIS FOR ROUGH TERRAIN CRANE

Superstructure

- Outriggers
- H-type outriggers, hydraulically controlled, can be operated in the cab simultaneously or independently.
 - Each vertical jack cylinder is equipped with a two-way hydraulic lock to ensure that outriggers are secured reliably during working or driving.
 - Outrigger boxes are directly welded onto the chassis frame.
 - The outriggers can be completely extended, half extended or completely retracted for different operating modes.
 - Outrigger spread (Height): 7900mm.
 - Outrigger spread (Width): 7900 mm (fully extended).
5400 mm (half extended).
2960 mm (fully retracted).

Chassis

- Type
- Rear mounted engine.
 - Drive mode: 4 x 2 and 4 x 4.

- Chassis frame
- Integral box-type construction welded by high-strength steel.

- Engine
- Model.
 - CUMMINS Q5B6.7.
 - Type.
 - Four stroke cycles, 6-cylinder diesel, direct injection, water-cooled, turbocharged, diesel engine.
 - Performance .
 - Max. output power: Dongfeng Cummins: 194 KW / 2200 RPM;
Cummins US: 194 KW / 2400 RPM.
 - Max. output torque: 990 Nm / 1500 RPM.

- Drive system
- Electrically controlled automatic hydraulic transmission, with transfer case.
 - 6 forwards and 3 reverse speeds, electro-hydraulic power shift, and automatic locking mechanism.
 - Working hydraulic oil pump and steering oil pump directly take off power from the transmission.

- Axles
- Front axle.
 - Steering and driving axle, rigidly mounted to chassis frame, with planetary reducer and brake.
 - Rear axle .
 - Full-floating steering and driving axle, with planetary reducer and brake.

Chassis

- Steering system
- Full hydraulic power steering gear.
- The cylinder for steering and driving axle is controlled by steering wheel to realize crane steering.
- 4 steering modes:
- 2-wheel steering – front wheel steering.
- 2-wheel steering – rear wheel steering.
- 4-wheel steering – all-wheel steering.
- 4-wheel steering – crab steering.

- Suspension system
- Front axle: rigidly mounted to chassis frame.
 - Rear axle: oscillation axle, connecting to chassis frame via hydraulic suspension cylinder.

- Brake system
- Service brake: Hydraulically controlled disc brake on 4 wheels.
 - Parking brake:Hydraulic released parking brake, under the action of the spring mounted on the input shaft of front.

- Electrical system
- 24 Volt DC.
 - 2 batteries with 12 V rated voltage and 120 Ah rated current.

- Fuel tank
- Capacity: 300 L.

- Tire
- Size: 26.5-25-32PR.

- Safety devices
- Rated capacity indicator (RCI).
 - Rotating beacon and horn.
 - Anti-Two Block devices.
 - 3rd wrap indicator.
 - Balance valve.
 - Hydraulic lock.
 - Hydraulic safety valve.
 - Swing brake.
 - Swing lockout device.
 - Boom angle indicator.
 - Outrigger beam retaining pin.
 - Emergency stop button.

TECHNICAL PARAMETERS

Type	Item	Value
Working performance	Max. rated lifting capacity × working radius	kg.m60000×3
	Max. load moment of boom	kN.m2337
	Max. load moment of boom (fully extended)	kN.m1160
	Max. lifting height of boom (fully extended)	m45.6
	Max. lifting height of jib	m61.6
Dimensions	Overall dimensions (L × W × H)	mm14330×3200×3900
	Outrigger spread(Height × Width)	mm7900×7900
	Boom length (fully retracted – fully extended)	mm11700 ~ 45500
	Jib length (fully retracted – fully extended)	mm9500 ~ 16000
	Boom angle	°-2-80
	Swing range	360° unlimited swing (Full range)
Working speeds	Max. hoist rope speed (Main winch)	m/min145
	Min. boom telescoping out time	s78
	Min. boom telescoping in time	s92
	Min. boom derricking up time	s47
	Min. boom derricking down time	s95
	Swing speed	r/min0-2.5
Hydraulic system	Maximum working pressure	MPa28
	Rate working flow	L/min280
	Hydraulic oil tank capacity	L800
Gross vehicle mass	Gross weight	kg41000
	Front weight	kg21200
	Rear weight	kg19800
Driving	Max. driving speed (forward/backward)	km/h35/20
	Wheelbase	mm4100
	Treads(Front / Rear)	mm2525
	Max. gradeability	%60

MAINPARTSTABLE

Type	Item	Main configuration
Power system	Engine make & model	Cummins QSB6.7
	Fuel type	Diesel
	Intake system	Turbo-charged, air to air, inter-cooling
	Cooling system	Water-cooling
	Engine rated powerKW/r/min	194KW/2200rpm (Dongfeng Cummins)/194KW/2400rpm (Cummins US)
	Engine rated torqueN.m/r/min	990N.m/1500rpm
	Fuel tank capacity	300 L(79.3 gal)
Drive system	Transmission drive mode	4 ×2, 4 ×4
	Model or brand of transmission	DANA
	Transmission gear stage	6 forward and 3 reverse speeds
Travel system	Suspension	Rigid (front) / Flexible (rear)
	Model or brand of axles	HANDE
	Steering mode	2-wheel steering (front wheel) 2-wheel steering (rear wheel) 4-wheel steering Crab steering
	Tire size	26.5-25-32PR
	Tire number	4
Hydraulic system	Model or brand of main valve	ZOOMLION
	Gear pump	Liyuan/Hi-Tech/Hengli
	Balance valve / hydraulic lock	NEM (Italy)/ZOOMLION
	Swing motor	HIGH-TECH/Liyuan (China)
Electrical system	Rated capacity indicator	ZOOMLION/HIRSCHMANN
	Controller	ZOOMLION/HIRSCHMANN
Emission		TIII