

ZRT300



ZOOMLION

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ZOOMLION

4.0
PRODUCTS

30
t

Max. capacity

10.7-35
m

Max. boom length

45
m

Max. tip height

CONTENTS

FEATURES	2
KEY/SYMBOLS	3
TECHNICAL DESCRIPTION	5-6
CRANE AND COMPONENT WEIGHTS	7
WORKING RANGE DIAGRAM	7
CRANE DIMENSIONS	8
LIFTING CAPACITY TABLES	9-10

FEATURES



The ZRT300 has a 35 m telescopic boom .Its telescoping system consists of one hydraulic cylinder with a rope extension/retraction mechanism .The extension/retraction mechanism has been designed for high telescoping lifting capacities .

4-sections U-shaped boom made with high-yield steel which reduces the operating weight of the boom and maximizes performance.



We chose the KESSLER.CO brand axle because it offers the most reliable product on the market ,all wheel and crab steering ensure easy handling and high manoeuvrability in constricted conditions.



Full-vision operator cab is designed for maximum comfort and ease of operation.



A 6-speed powershift transmission from DANA offers the latest technology for the diverse needs of off-road cranes.



The crane is powered by a WeiChai WP6 diesel engine,which is proven to have superior performance and durability. The Best engine Brand in China and have strong global network of parts and service.



























The crane's work is secured by the WIDE MSC670 LMI(Load Moment limiter),delivers the industry's most reliable electronic monitoring system available.

STANDARD EQUIPMENT

- Formed boom
- Offsettable jib 5° -17° -30°
- Auxiliary winch
- Cameras
- Auxiliary lifting sheave
- 30 ton hook block, with 5 sheaves and hook latch
- 3 ton hook ball ,with hook latch
- Rotation-resistant wire rope
- Deluxe tiltable seat
- Air conditioner/Heater
- Work light package : boom, cab and suprestructure
- Revolving amber light
- AM/FM radio
- Battery disconnect switch
- Front and rear lift lugs

KEY/SYMBOLS

	Engine	p4		Transmission	p6
	Axles	p4		Cameras	p6
	Steering	p4		Brakes	p6
	Gradeability	p4		Main boom	p6
	Tires and wheels	p4		Hook ball	p6
	Outrigger system (100%, 50%, 0% extended)	p4		Hook block	p6
	Swing	p5		Main and auxiliary winches	p6
	Hydraulic system	p5		Crane with counterweight	p7
	Counterweight	p5		Side-stowed jib	p7
	Operator cab	p5		Distance from the hook to the head	p7
	Max. boom length with jib ext.	p5		Tip height	p7
	Load Moment Indicator(LMI)	p5		Working radius	p7

TECHNICAL DESCRIPTION



ENGINE

WEICHAH WP6.....Inline 6 cylinder intercooled turbo diesel.
 Kilowatts KW.....154 @ 2200 rpm.
 Peak torque Nm.....990@1200rpm ~ 1800rpm
 300 liter fuel tank capacity.

China national III emission rating.



AXLES

KESSLER.CO front and rear steering axles .

Front- Steer and drive axle rigidly attach to the chassis frame, with planetary reducer and brakes.

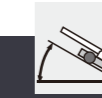
Rear- Full-float steer and drive axle, with planetary reducer and brakes.



STEERING

Power steering with four independent modes:

Front Wheel
 Rear-Wheel
 All-Wheel
 Crab



GRADEABILITY

51% max.gradeability



TIRES AND WHEELS

14.00R25 radial tire.



OUTRIGGER SYSTEM

Four independent horizontal beams and vertical jacks with integral holding valves, each independently controlled from the operator cab.

100%-Fully extended outriggers

Footprint.....43.55sq.m

50%-Mid position outriggers

Footprint.....29.8sq.m

0%-Fully retracted outriggers

Footprint.....16sq.m

Outrigger span.....Length 6.7m, Width 6.5m

TECHNICAL DESCRIPTION



SWING

Bi-directional hydraulic swing drive with multi-disc wet brake and planetary reduction gearbox. Spring-applied hydraulically released swing brake and 360° pneumatic positive swing lock.
Max. swing speed:2.5 rpm.



HYDRAULIC SYSTEM

Gear pump for main and auxiliary winches, boom hoist and telescope cylinders.
Gear pump for steering.
Gear pump for outriggers and slewing.
580 liter hydraulic reservoir with external sight and temperature gauge.

Easily accessible (10 micron) cartridge-style full-flow filters with bypass protection.
Max. operating pressure:22Mpa.



COUNTERWEIGHT

Single 4500kg fixed counterweight.
Length2400mm
Width580mm
Height620mm



OPERATOR CAB

Full-vision operator cab designed for maximum comfort. All steel fabrication with acoustical lining and safety glass throughout. The cab has a sliding door on the right and a sliding window on the left with a swing-up skylight with retractable shade and wiper motor. Fully adjustable deluxe seat with tilt. Foot controls for boom telescope, service brake and engine throttle. Tilt steering.

Temperature control is provided by a hydraulically driven air conditioning unit. Easy view dashboard with gauges for all engine sensors and rocker switch outrigger controls. Standard amenities also include bubble level, dome light, left-side rearview mirror, seat belt, travel swing lock and signal horn.



MAX. BOOM LENGTH WITH JIB EXTENSION

It consists of one jib section. Jib section is lattice structure (8 m). and the whole jib is secured onto the bottom of main boom via moveable pins during traveling. Main jib is offsettable at 5°, 17° and 30°. Max. tip height with 8m jib erected is 45m.



LOAD MOMENT INDICATOR (LMI)

WIDE MCS-670 LMI control system. Microguard graphic display load moment and anti-two block system with audiovisual warning and function limiter.

System displays the following information: crane configuration, boom length, boom angle, load radius, allowed capacity, actual load, and load percentage of allowed capacity.

System includes settable work parameters: min./max. boom length, min./max. boom angle, defined swing area.



TRANSMISSION

Dana powershift transmission - 6 speeds forward and 3 speeds reverse.
Front axle disconnection offering both 4x4 and 4x2 operation.
Max. speed41.4 km/hr(25.7 mph)



CAMERAS

The crane comes equipped with two cameras-a winch camera for viewing hoist operation and a rear camera for viewing the rear of the crane. The monitor is located in the cab and one can easily toggle between both camera views.



MAIN BOOM

Four-section, U-shape, full-power synchronized boom. Boom is constructed of high-yield steel, 5 sheave quick reeve boom tip with removable rope guards. Rope termination lugs on both sides of boom head. Auxiliary lifting sheave and manual angle indicator are included.

Full extended boom length35m
Full retracted boom length10.7m
Max. tip height, main boom37.2

Boom angle range (min./max.)2° / +80°
Boom raising/lowering time35sec/50sec
Boom extension/retraction time67sec/50sec



BRAKES

470 millimeters (18.5 in) diameter disc brakes on all wheels hydraulically operated.



HOKK BLOCK AND HOOK BALL

30-ton, 5 sheave (steel),
Hook block weight340kg
3-ton ball hook
Ball hook weight80kg




MAIN AND AUXILIARY WINCHES





Standard two speed main and auxiliary hoists, each with planetary reduction and spring applied multi-disc wet brake.

Each hoist features
Grooved drum lagging.
Hoist drum cable followers.
Max. permissible line pull: 3000kg.
Winch speed: 0-140m/min .
Power up / power down
Electronic drum rotation indicators.

Rope construction: 17mm rotation-resistant compacted strand.

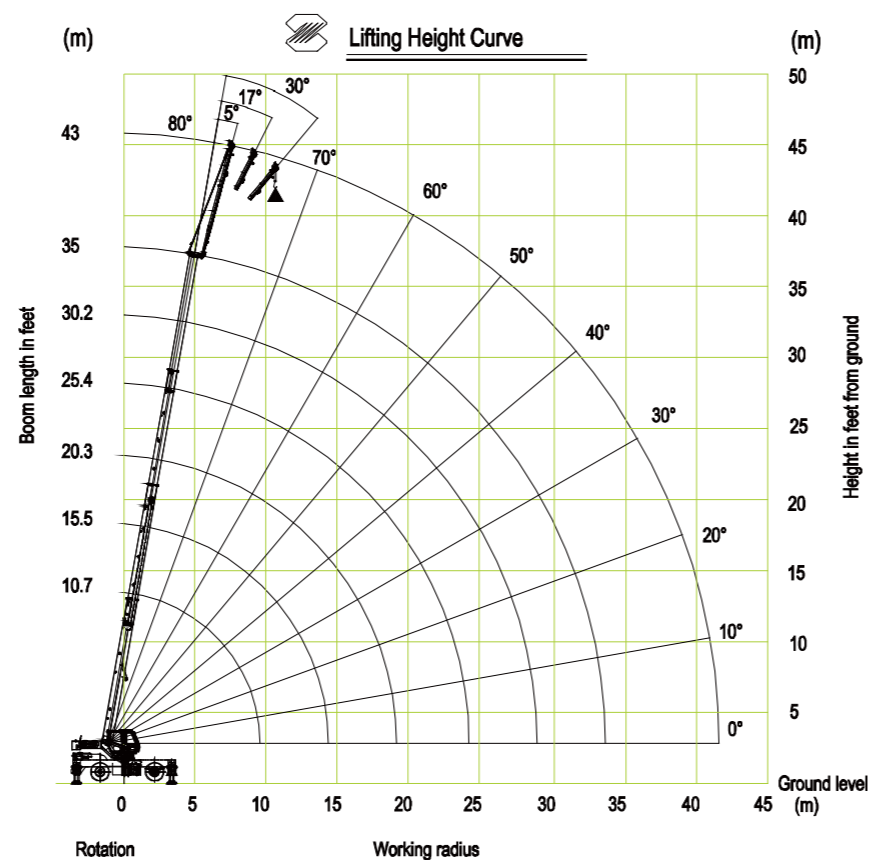
CRANE AND COMPONENT WEIGHTS

CRANE OPERATING WEIGHTS			
	Gross Vehicle Weight	Front Axle Load	Rear Axle Load
 CRANE WITH CTWT.	Kg	Kg	Kg
	28,300	14,600	13,700

DEDUCTIONS FOR LOAD HANDLING				
	 JIB STOWED	 AXUE LARY HEAD	 5 sheave 60-ton hook block	 5.5-ton hook ball
Kg	493	33	340	80

Front WHEEL(4x2)STEERING	METRIC
WALL TO WALL OVER CARRIER	11.15m
ALL WHEEL(4x4)STEERING	METRIC
WALL TO WALL OVER CARRIER	5.7m
TAIL SWING	METRIC
WALL TO WALL OVER BOOM ATTACHED	3.175m

WORKING RANGE DIAGRM



NOTICE:

- 1、 Boom deflections not shown ;
- 2、 This curve is made under the condition of outriggers extension,and the gap between ground and wheels are 0.12m ;
- 3、 The distance between the center of hook and the center of boom head is 1.8m ;
The distance between the center of Auxiliary hook and center of boom head is 1 m .



CRANE DIMENSIONS

