

# WHEELED TRACTOR RD254



## ZOOMLION



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MADE IN CHINA



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## Elegance due to compactness refusing compromise

You may often wander through well-managed orchards or farms, are overwhelmed by the hustle and bustle of farming and the narrow spacing of the fields and unable to show your skills, and have to be compromised. This time, Zoomlion gives you sufficient reasons to refuse compromise. Zoomlion RD series tractors, featuring various practical functions and reasonable body size, are perfectly applicable to planting plots with narrow row spacing.



### ■ Power system

Laidong Naturally aspirated Euro 5 engine is adopted to comply with the national-II emission standard.

### ■ Transmission

The transmission provides 8F+8R gears, providing ideal working speed of various operations with high operating efficiency.

### ■ Working device

Semi-split hydraulic lifting device;  
It is provided with 2 hydraulic outputs, which can meet the requirements of folding harrow, turnover plow and other machines and tools with wide adaptability.



## Reliable power

- Laidong Naturally aspirated Euro 5 engine, It meets the Emission standard of Euro 5 with 1.532L.
- Four-stroke water-cooled direct injection engine is adopted, which has a maximum speed of 2400r/min and maximum output torque at 1650r/min for sufficient power.
- It is equipped with flame preheating device, which is started at low temperature start to increase the intake temperature, improving the reliability of engine started at low temperature.
- It is equipped with high-capacity battery with small performance attenuation at low temperature, ensuring normal motor starting and engine ignition at low temperature.

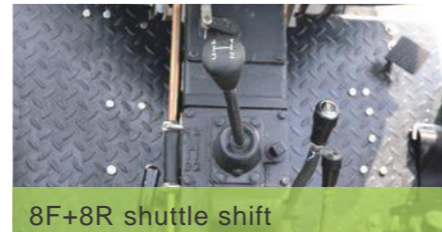


## Cooling System



- Independent large-capacity radiator is adopted to improve the reliability of the engine during long-time and high-load operation.
- The cooling system is equipped with debris isolation device, effectively preventing dust and debris from entering the machine. The device can be taken out manually from the side, facilitating cleaning up dust, debris and other sundries.
- The dry air filter is built-in with exhaust structure below, so as to ensure comfort and wide vision of the driver, prevent the impurities in the air from entering the machine, prolong the service cycle of air filter, prolong the service life of the engine, and save every penny for you.
- The filter element is upgraded from the original primary filter to secondary filter, adding safety filter element and dust accumulation alarm.

## Transmission system



8F+8R shuttle shift



Shuttle shift lever



Dual-stage clutch



Drive structure

### 8F+8R shuttle shift

- It adopts the center control at the driver's fingertips for convenience, flexibility and lowered noise.

### Shuttle reversing lever

- The shuttle reversing lever has more advantages when it is used in small fields, narrow road sections or when the front loading tools are used; separate reversing lever can be switched forward and backward quickly, which is labor-saving and convenient.

### Main and secondary transmissions

- The main and the secondary transmissions are operated by two joysticks respectively

Main gearshift lever A has four gears (1, 2, 3 and 4), and secondary gearshift lever B has two speed sections (L for low speed and H for high speed), which can realized 8 driving gears and 8 reverse gears, with driving speed of 1.71-25.52km/h and reverse speed of 1.59-24.24km/h, meeting the needs of different fields at various speeds.

### Dual-stage clutch

- The dry-type, independently-operated and dual-stage clutch can realize the independent operation of the running system and PTO, with high working reliability;
- Dustproof and waterproof devices are added to the shifting lever parts to ensure that the shifting parts are flexible and free from jamming.



## Transmission system

### Reinforced front axle

- Reinforced front axle with ground clearance of 300mm to protect crops during field operation and management.

### Tire

- The standard tire is the 6.0-16/9.5-24 tire for dry field.
- The front axle features large steering angle with minimum steering radius of only 3m under unilateral braking, which is capable of full hydraulic power steering for easy and flexible steering, greatly reducing the steering time required.

### High-strength chassis

- Chassis is made of high-strength steel with high tensile strength and performance improved by 30%.

### Rear track

- Both front and rear tracks are optimized to be the standard value of 1250/1160mm for operation stability.
- The rear track can be infinitely adjustable, and the adjustable range is 1160-1400mm, which can adapt to the operation requirements under different agricultural conditions in different regions.



## Counterweight



### Rear counterweight

The rear counterweight can be the first layer of 60kg, which can be adjusted as required.



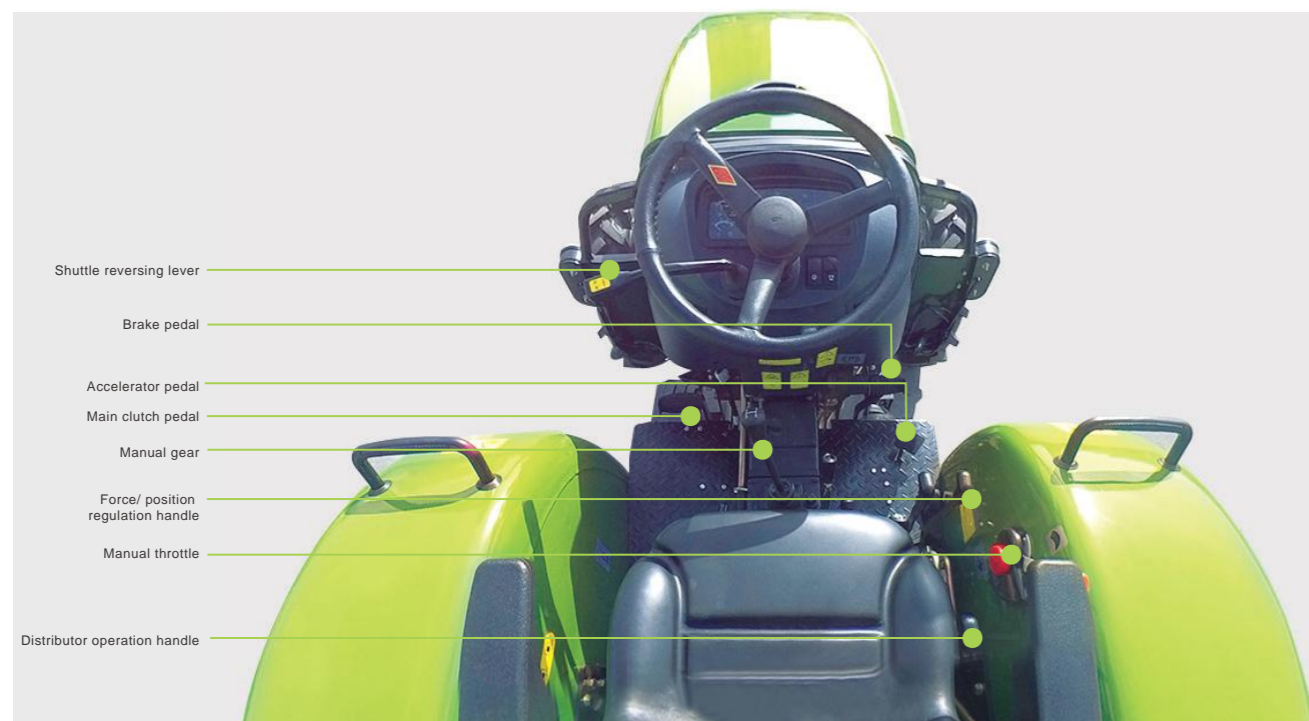
### Front counterweight

Standard front counterweight: 6x9kg, which can be adjusted as required.

## Operating system

### Reasonable layout for easy control

- The operating components has been carefully arranged and calculated, and placed within the driver's reach. Even in high-intensity working conditions, the control can be carried out in time for quick response.
- Hydraulic-driven steering system facilitates real-time correction of tractor body in a variety of working conditions and working speeds, and the steering wheel and each control handle are ergonomic and feel comfortable, perfectly fitting with the hands.
- Each control lever and rotating shaft parts are provided with wear-resistant sleeves and lubricating sleeves, the support shaft adopts self-lubricating maintenance-free bearing to avoid strenuousness caused by rust, reduce the number and time of maintenance, and save time and money for you to the greatest extent.

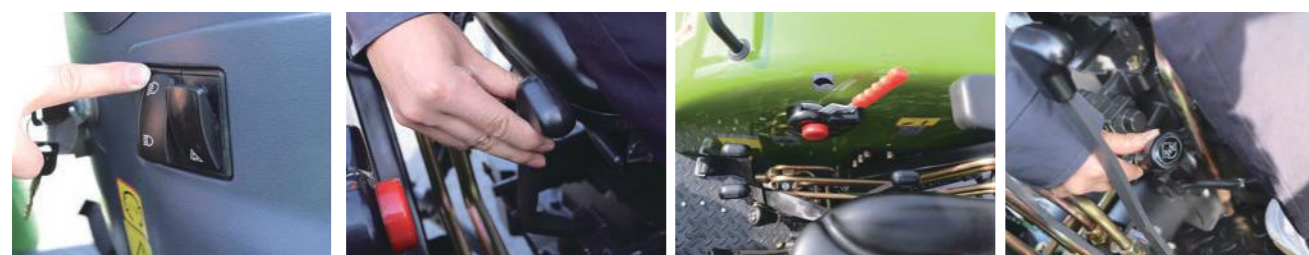


Adjustable seat

Visual steering wheel

Electric control box

PTO joystick



Light combination switch

Force/ position regulation handle

Manual throttle

Distributor operation handle

## Operating mechanism

### Power output

- PTO speed is 540/1000r/min.
- Multiple types of splines are available to meet requirements of various machines and tools.
- The root of the output shaft is strengthened, which can effectively reduce the fracture of the PTO shaft caused by the user's misoperation, and the failure rate is greatly reduced by using the cartridge seal technology.

### Hydraulic output

- It is equipped with standard 2 hydraulic outputs, which can meet the requirements of folding harrow, turnover plow and other machines and tools with wide adaptability.
- Single-channel hydraulic output flow can reach 23L/min, meeting hydraulic output requirements of various agricultural machinery.

### Trailing and towing device

- Both fixed trailing and swing link type traction devices are available, and the height of the fixed trailing device is subject to multiple-step adjustment, which can be used with various agricultural machinery and tools. The quick hitch device is optional for easy and convenient operation.
- The swing link has three positions for the user to choose. The distance between the center line of the balance of the swing link and the end of the PTO can be adjusted according to the different needs of users, with adjustable range of  $\pm 50\text{mm}$ .

### Hydraulic hitching system

- It adopts the three-point hitching class-I device for position control and floating control, which can be matched with a variety of complex agricultural machinery and tools.
- The lower hitching lifting lever contains step-adjustable holes to expand or reduce the distance between the lower hitching levers as needed.



### Hydraulic lifting device

- Semi-split hydraulic lifting system is equipped with two one-way cylinders and has a lifting force of  $\geq 4.2\text{KN}$ . The driver can control the force and position adjustment levers respectively to realize the lifting or lowering of agricultural tools. The descending speed of agricultural machinery and tools can be adjusted by adjusting the speed regulating valve of the lifter. The user can select proper descending speed of agricultural tools to prevent any damage to agricultural tools according to the weight of the tools, the type and the softness of the ground.

### Air brake

- The air brake is provided as a standard configuration, which is mainly used for braking the tractor's trailer during transport, in order to ensure that the tractor runs safely.

## Body design and maintenance



Radiator grille  
To be removed and  
cleaned easily

- The large-area radiator grille in front and rear of the hood can greatly improve the air intake and heat dissipation speed of the radiator to ensure the normal operation of the machine.
- The opening angle of the hood can be lifted up to  $45^\circ$  to avoid untouchable dead corners for easy maintenance. Components, such as oil filters, which often require replacement or maintenance, are placed closest to the periphery.
- The cover is well wrapped to minimize wear of internal components. If maintenance is needed, the engine, radiator and other components will be at a glance and at your fingertips after the front cover is lifted and fixed, saving your maintenance time.

## Parameters&product dimensions



Model	RD254-A
Engine	
Number of cylinders/intake mode	3 cylinders/naturally aspirated
Emission	Euro 5
Calibrated power/ speed (rpm)	18.4kW/2400rpm
Fuel consumption rate	≤248g/kW.h
Tank capacity	25L
Displacement	1.532L
Transmission	
Type	Meshing sleeve shift
Number of gears	8F+8R
Hydraulic system	
Type	Semi-split type
Number of output valves (set)	2 sets
Single hydraulic output flow	23L/min
Hydraulic lifter	
Tilling depth control mode	Position control and floating control
Max. lifting force (610 mm posterior to the end)	4.2kN
Hitching mechanism	
Types and categories	Three-point hitching, class I
Power take-off shaft	
PTO output power	16.9kW
Speed (rpm)	540/1000rpm
Power take-off shaft spec.	6-teeth rectangular spline shaft (axle diameter of 35)
Whole tractor data	
LxWxH	3300x1425x2500mm
Wheelbase	1639mm
Min. ground clearance	300mm
Overall weight	
Min. operating weight	1455kg
Tire	
Tire specification (front wheel/rear wheel)	Standard: 6.0-16/9.5-24
Front track	1250mm
Rear track	1160mm
Counterweight	
Front counterweight	6x9kg
Rear configuration	First layer of 60kg
steering	
Min. turning radius	3m
Steering angle	40°
Other	
Traction force	6.3kN
Safety shelf or cab	safety shelf
Air brake	Yes
Clutch type	Dry type, independent control, and dual stage

## Parameters&product dimensions



Model	RD254
Engine	
Number of cylinders/intake mode	3 cylinders/naturally aspirated
Emission	Euro 5
Calibrated power/ speed (rpm)	18.4kW/2400rpm
Fuel consumption rate	≤248g/kW.h
Tank capacity	29L
Displacement	1.532L
Transmission	
Type	Meshing sleeve shift
Number of gears	8F+8R
Hydraulic system	
Type	Semi-split type
Number of output valves (set)	2 sets
Single hydraulic output flow	23L/min
Hydraulic lifter	
Tilling depth control mode	Position control and floating control
Max. lifting force (610 mm posterior to the end)	4.2kN
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PTO output power	16.9kW
Speed (rpm)	540/1000rpm
Power take-off shaft spec.	6-teeth rectangular spline shaft (axle diameter of 35)
Whole tractor data	
LxWxH	3300x1425x2450
Wheelbase	1639mm
Min. ground clearance	300mm
Overall weight	
Min. operating weight	1530kg
Tire	
Tire specification (front wheel/rear wheel)	Standard: 6.0-16/11.2-24
Front track	1250mm
Rear track	1250mm
Counterweight	
Front counterweight	6x9kg
Rear configuration	First layer of 60kg
steering	
Min. turning radius	3m
Steering angle	40°
Other	
Traction force	6.3kN
Safety shelf or cab	Cab
Air brake	Yes
Clutch type	Dry type, independent control, and dual stage