

Top Selling Machine



**Tractor**  
Horsepower range:  
45~150PH  
The transmission forms  
include power shifting,  
synchronizer shifting,  
sliding sleeve shifting  
and others.



**Rice Harvester**  
Feeding capacity:  
2.5~5kg/s  
strong ability in lodging  
harvesting,High ground  
clearance with good  
passability for deep  
mud foot field.



**Sugarcane Harvester**  
Feeding amount:  
≥4-5.5kg/s  
Driving mode:  
track type/wheel type  
wide feeding entry  
suitable for wide and  
narrow rows high efficiency



**Grain Dryer**  
8T/10T/15T  
Main drying crop:  
rice & wheat  
Main energy sources:  
rice husks, straw, coal.  
Low crushing rate and  
high drying efficiency.

DEALER MESSAGE

**ZOOMLION**

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MADE IN CHINA

The data indicated in this folder are approximate. The models described here can be subjected to modifications without any notice by the manufacturer. The drawings and photos may refer to equipment that is either optional or intended for other countries. Please apply to our Sales Network for any further information. Published by ZOOMLION . Printing date:2019/1/20.



**RH Series Tractor**  
RH904/RH1004/RH1204/RH1304

**ZOOMLION**



HIGH COST  
PERFORMANCE  
YOUR BEST CHOICE



## The most advantage place to be

The upgraded RH series tractor aims to improve the overall performance of the tractor to a new level. Even the most demanding user will be comfortable with the new ZOOMLION tractors. The perfect match of extremely low fuel consumption engine and transmission system, from unique shape to outstanding performance, RH series tractor is your family's high quality partner.

### Drive easy and comfortable

The research and development personnel have fully considered the actual feelings of many users and the demands of products. After careful conception and design, they have developed an ergonomic driving system and set a new industry benchmark in this field. The use of air suspension seats means that the operator's comfort level has been raised to a whole new level.

### Strong power, good economy

Are you looking for a tractor that can provide you with superior power in a compact body? Then RH is your natural choice: advanced high pressure common rail engines offer accurate fuel, incomparable responsiveness and improved fuel efficiency, and a torque reserve of over 35%.

### Low using cost

High-strength body + full-flow oil cooler, heat dissipation efficiency increased by more than 30%, high reliability, less maintenance; Advanced high pressure common rail engines provide accurate fuel, good fuel economy ; High chassis strength, not easy to damage; Automotive wiring harness, low maintenance cost.

### Wide range of use

In order to meet the diverse practical needs of users, RH considers product versatility at the beginning of design. This series of products can be matched with a variety of agricultural implements, can do the steering front loading or post-excavation tasks effortlessly, in other cases also can be equally capable, for a variety of highly adaptable needs have their own perfect solution.

RH (models)	Rated power (hp)	Wheelbase (mm)	Weight (kg)
RH904-A/RH904	90	2352	3980/4250
RH1004-A/RH1004	100	2352	3980/4250
RH1204-A/RH1204	120	2352	3980/4250
RH1304-A/RH1304	130	2352	3980/4250

### Product model description

The performance of RH is obvious to all users. For the first two numbers on the hood "RH" represents the category of tractor, the last few numbers "100" represents the maximum power of the engine, the last number "4" represents the whole machine as 4-drive model, "A" represents with the ROPS, without "A" represents with the cabin model.





### ■ Four -column cabin

Adopts new design four-column cabin, the driving blind area effectively reduced; The front windshield adopts "curved surface" design, which makes the driving vision better. The front windscreen adds defrosting vent, making driving more comfortable and safer.



### ■ ROPS

The ROPS can be optional for all models, characterized by front folding frame. The optional ROPS and canopy further enhances security during loader activity. The operator can still enjoy super flat floors and ergonomically controlled Spaces



Note: No matter with cab or ROPS models both have passed OECD technical certification to avoid personal injury caused by vehicle tumbling.

## Driving, no longer tired

Ergonomic design, absolute comfort, and an industry-leading operating environment all add up to the ultimate driving experience. The luxury cab was developed using state-of-the-art virtual reality technology, this is a tractor tailored for you.



### ■ Please get on

The ample space ensures easy access and comfortable operation to further enhance your feeling, in the long work every day, you'll be thankful for super flat, non-skid flooring and floating pedal sets that reduce your sense of fatigue. Note that the steering column is adjustable up and down to suit your control.



### ■ You sit comfortable?

Optional luxurious air suspension seat with armrest: the driver can adjust the seat to the most comfortable air pressure position (i.e. anti-vibration balance point) according to his own needs, with excellent smoothness. The suspension seat isolates the direct conduction of force wave and has the characteristics of vibration reduction, vibration prevent and anti-vibration, which greatly reduces the driving fatigue of the driver and further improves the comfort and safety of the seat belt.



### ■ Enjoy A/C and music

Adopts the famous brand original import air conditioning, refrigeration is fast, the effect is good, the highest wind speed of its outlet reaches 12-15m/s. Up to eight separate vents are set up to control the airflow so that the entire body achieves ultimate comfort, or at extreme temperatures, the windshield defrosts at an extremely fast rate. The control switch is accessible and can be easily adjusted during operation. You can choose your favorite channel at any time in your work. For music fans, the auxiliary socket of MP3 is also perfectly combined.



### ■ Sunshade screen

The sun shade screen can effectively block the strong light from entering the cabin, reduce the scorching heat in the cabin to a certain extent, and prevent the light from directly shining on your eyes, affecting the driving.



### ■ Dark night, bright lights

Working lights can be adjusted to adapt to various environments. Large-areas LED lights enable the machine to work efficiently at night. The switch under the steering wheel can easily control all kinds of working lights and LED brake lights to ensure safer driving at night.

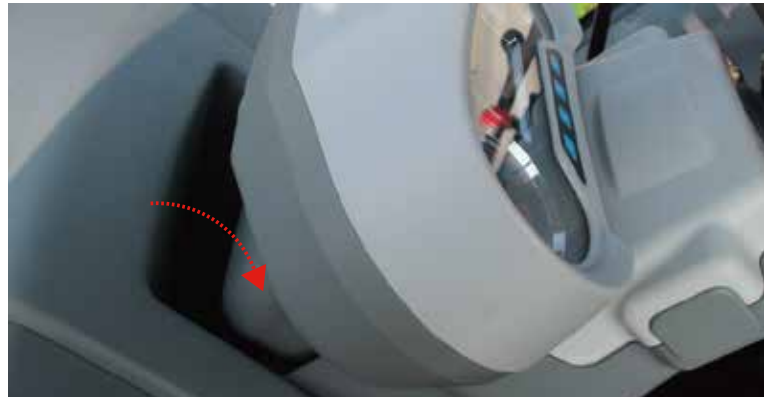


# Manipulation becomes easy

Precise design concept provides you with the ultimate operation of ergonomics. It can be configured scientifically according to your body shape. The most commonly used control handle is placed on the right side of you, which greatly improves the comfort and work efficiency



Beautiful instrument desk means you will always have a convenient visual view of driving parameters. Through the sensor, the vehicle can be monitored in real time. In addition to the above advantages, the biggest highlight of the instrument panel is that it has the function of setting and inquiring, and can master the running state of the engine at any time.



The direction can be tilted steering column, so that you always drive in a comfortable range

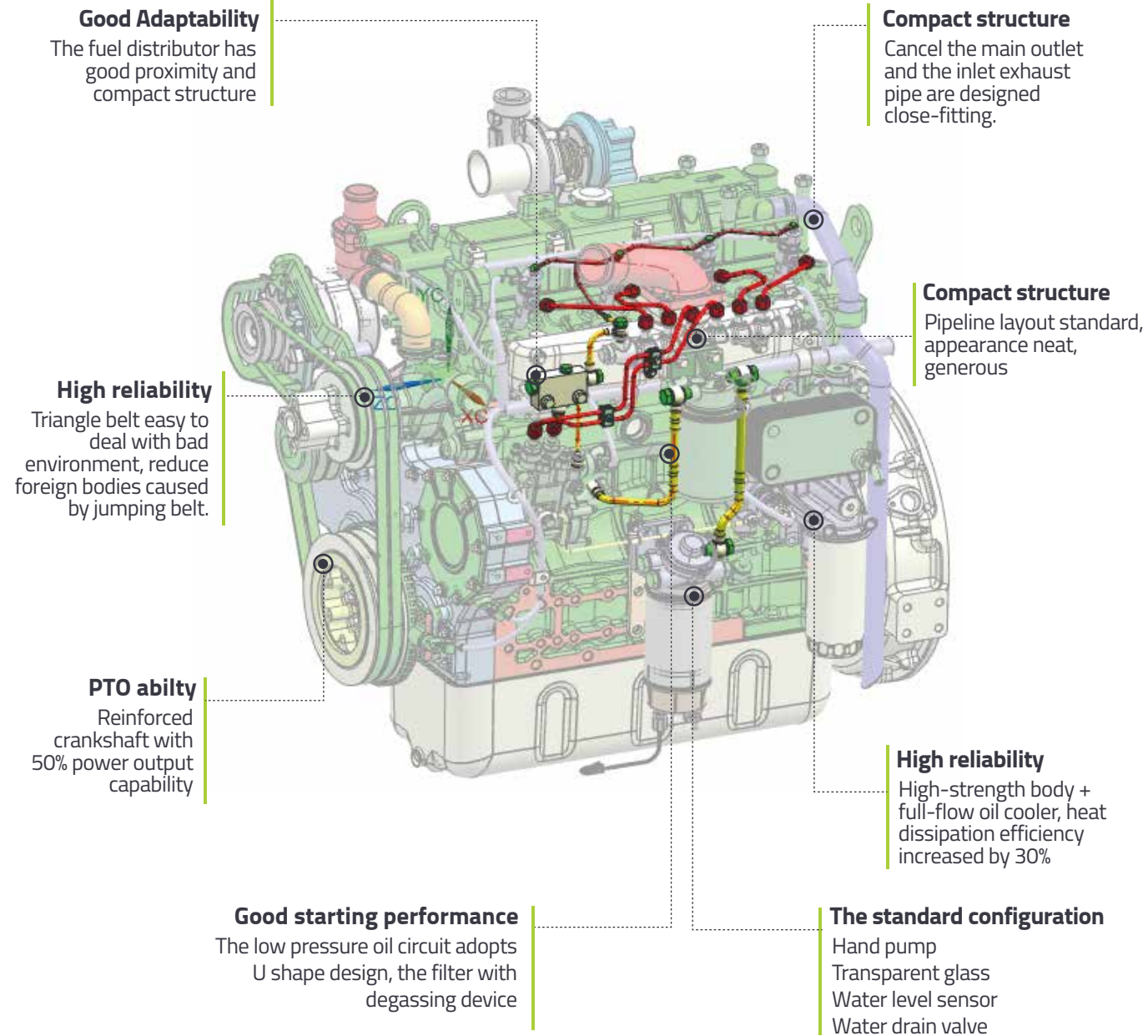


Clutch pedal      Left brake pedal      Accelerator pedal  
Right brake pedal



# Power system

The whole RH series have 4.8L high pressure common rail engine, which developed by China YUCHAI company and in line with strict III emission regulations. Advanced common rail technology provides optimum reaction with accurate fuel supply, ECU according to water temperature and altitude correction primary jet spray oil amount and timing, ensure continuous and reliable running engine thin air in plateau environment (not exceed temperature/speed/surge), to meet the durability performance as close as possible to the plain under the condition of boundary limit level. The external characteristic of 220g/kw.h has the lowest fuel consumption rate, and the oil consumption ratio of 0.25% is more fuel saving and better economy



# Electric system



**Power main switch**  
Adopts Italy imported power switch, high reliability, good waterproof effect, protection grade is IP65



**Ignition lock**  
Ignition lock adopts USA imported, protection grade is IP67)



**Cock switch**  
Adopts Germany imported high-end brand cock switch, the quality can be guaranteed, more reliable and the protection grade is IP67)



**Electric box**  
Adopts high quality electrical box, reliable quality, longer service life, which can escort for the whole vehicle electrical system.

# Hydraulic system



Two units hydraulic output can be optional to control the hydraulic fittings, which can be used to control the hydraulic fittings such as the front bulldozer shovel and the front loader, as well as the large agricultural machinery and implements such as the hydraulic reversible plough, which are completely controlled by the integrated joystick in the cab. Constant current multi-way valve installation location at your fingertips, users disassembly, maintenance more convenient.  
When measured at 610mm behind the ball end, the maximum lifting force of the rear three suspension points is 16kN, and the external oil cylinder is available in both single and double cylinders. The rugged and heavy-duty design means even the heaviest implements can be lifted easily.



Constant flow pump designates the same supplier system of ZOOMLION construction machinery to ensure the reliable operation of hydraulic system.



Adopts imported high quality hydraulic steering gear, improve product reliability and service life, effectively reduce user maintenance, maintenance costs.





## Small turning radius

The turning radius of the whole machine in the field is 4.7m, which reduces the turning radius by 0.6m compared with the competing products. The machine has high maneuverability and is more suitable for small field.



### Waterproof sealing front axle

The waterproof sealing front axle for paddy field is adopted, so the reliability of paddy field operation is higher



### The rear axle has stronger bearing capacity

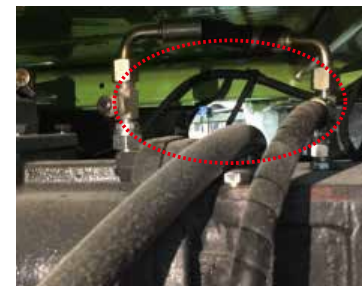
The size of rear axle drive housing is larger and the bearing capacity of rear axle is stronger. Among them, the overall length of the rear axle is 100mm longer than the general product, 42mm wider, 69mm higher and 46mm farther from the center.

## Transmission system



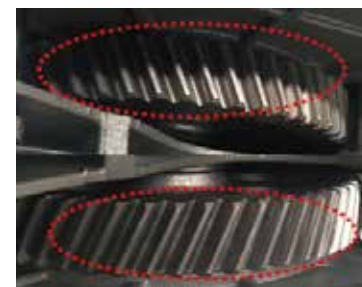
### Transmission box with higher reliability

The gear module of transmission is larger, the bearing capacity is stronger compared with the competing products, and the reliability of transmission is higher. The gear shape of the middle shaft is upgraded from straight tooth to helical tooth, which has stronger bearing capacity than the competing products and greatly reduces transmission noise.



### Forced lubrication, more reliable transmission system

Transmission lubrication mode of a new revolution, from the traditional industry "splash lubrication" to forced lubrication, effectively ensure the transmission needle roller bearing lubrication effect, improve the service life of the bearing and the reliability of the transmission system.



### Rear axle strength increased

The diameter of differential cross shaft is increased to 28mm compared with the size of competing products, and the strength is increased by about 10%. The module of the central transmission gear is increased, the center distance is increased by 7mm, and the structural strength is increased by about 6%. The final reduction gear (left and right) is 10mm wider than the competing products, and the overall structural strength is improved by about 15%



### High quality imported NOK combined oil seal

The critical parts of the transmission system adopt high quality, high grade imported NOK combined oil seal, which can completely solve the problems of three leakage points of PTO, clutch, and half shaft, and the chassis has better sealing performance.



### Strong loading capacity of transmission box

The width of transmission box gear added to 30mm than competing product, strength improved by 20%, the loading capacity stronger. Adopts tapered roller bearing, the spare parts have longer service life than competing products.



# The implements are of diversity

ZOOMLION knows that a perfect fit is better than an afterwards thought. This is why the RH is designed to be adaptable to front loader and front bulldozer shovel. RH is fully compatible with FQ120 front loader, TT230 front bulldozer shovel, lw-10 rear excavator: perfect productivity combination. The FQ120 loader has a lifting capacity of 1200kg and a lifting height of 3980mm. TT230 bulldozing width 2300mm, shovel height 550mm, lw-10 rear mining depth 3200mm, unloading height 2650mm, suitable for various occasions.



### FQ120(Front loader)

Max. lifting height(mm)	3980
Max. lifting weight(kg)	1200
RH904	○
RH1004	○
RH1204	○
RH1304	○



### TT230(Front bulldozer shovel)

Cutting Width (mm)	2300
Blade Height (mm)	550
RH904	○
RH1004	○
RH1204	○
RH1304	○



### LW-10(Rear excavator)

Max. Digging Depth(mm)	3200
Max. Unloading Height(mm)	2650
Max. Digging Height(mm)	3770
RH904	○
RH1004	○
RH1204	○
RH1304	○

# Easier maintenance

Adopt new three-generation machine body, "split" hood, more beautiful shape, can be separated and assembled, engine upper part maintenance is more convenient.



Maintenance Position	Operation content	Nos	maintenance cycle
Fan belt	Check the tensity	1	Working every 50h
Diesel filter	Filter element replacement	1	Working every 200h after run-in period
Rotary type oil filter	Filter replacement	1	Working every 200h after run-in period
Lifter hydraulic oil suction filter	Clean or replace the filter element	1	Working every 200h
Lifter hydraulic oil return filter	Clean or replace the filter element	1	Working every 200h
Engine oil sump	Lubricating oil replacement	1	Working every 200h
Oil bath type air filter oil pan	Maintenance, clean	1	Working every 200h
Respirator filter element	Clean the filter element	2	Working every 400h
Hydraulic steering tank filter	Clean, maintenance	1	Working every 400h
Hydraulic steering tank	Lubricating oil replacement	1	Working every 800h
Transmission and lifter	Lubricating oil replacement	1	Working every 800h
Engine cooling system	Clean, maintenance	1	Working every 1600h
Engine cooling system with antifreeze	Antifreeze replacement	1	Two years/Working every 1600h
Front drive axle center drive	Lubricating oil replacement	1	Working every 1600h
Front drive axle end drive	Lubricating oil replacement	1	Working every 1600h



# Service/Spare parts/Training

## Oversea Service Commitment

### Experienced oversea service engineers team

More than 50 people oversea service team;  
Maintenance, repair, training engineer;  
Service covers more than 70 countries.

### Rich experience Training

More than 3000 persons training per year;  
Theatrical, practical, multimedia training;  
Oversea site training.

### Oversea Parts Supply Guarantee

Three Oversea Parts Center More than 2600 m³ parts logistic warehouse;  
Quickly respond professional parts supply team.



# Technical parameters

Model	Unit	RH904	RH1004	RH1204	RH1304
Engine					
Engine number	/	YC4A100-T300	YC4A110-T300	YC4A140-T303	YC4A150-T304
Engine type	/	4 Cylinder, vertical, in-line, water cooled, four stroke, high pressure common rail			
Cylinder No	/	4	4	4	4
Cylinder diameter	mm	108	108	108	108
Route	mm	132	132	132	132
Rated power	kW	66.2	73.5	88.2	95.6
Rated speed	rpm	2200	2200	2200	2200
Maximum torque/speed	N·m/rpm	410/1400-1700	450/1400-1700	520/1400-1700	560/1400-1700
Minimum fuel oil consumption rate at full load	g/kW·h	≤220	≤220	≤220	≤220
Engine oil and fuel oil consumption ratio	/	≤0.25%	≤0.25%	≤0.25%	≤0.25%
Lubrication mode	/	Pressure, splash mixed type			
Start mode	/	Electric starting			
Front axle					
Shaft	/	Middle shifting			
Central rotation	/	Spiral bevel gear type			
Differential	/	Closed, two planetary bevel gears			
Steering circle radius (when unilateral braking is not used)	m	4.7±0.2			
Steering circle radius (when unilateral braking is used)	m	4.2±0.2			
Drive system					
Clutch	/	Dry type, single, dual-action			
Transmission	/	10+10 shuttle shift			
Central rotation	/	Arc spiral bevel gear pair			
Differential	/	Closed, five planetary bevel gears(with differential lock)			
Differential lock	/	Dowel pin type			
Final rotation	/	External mesh, internal type			
Electrical part					
Electrical system type	/	12 v negative iron two-wire system			
Battery capacity	Ah	120			



Technical parameters

Model	Unit	RH904	RH1004	RH1204	RH1304
Hydraulic part					
Hydraulic system type	/	split type			
Hydraulic oil pump number	/	Double gear pump CBT-F320FL			
Distributor type	/	Slide valve type			
Cylinder type	/	Dual-action			
Suspension type	/	II type	II type	II type	II type
No hydraulic output	/	○	○	○	○
One unit hydraulic output	/	○	○	○	○
two units hydraulic output	/	●	●	●	●
With forced lubrication	/	●	●	●	●
Without forced lubrication	/	○	○	○	○
Front/rear ballast					
Without front ballast	/	○	○	○	○
Front ballast 5 layers	/	○	○	●	●
Front ballast 7 layers	/	○	○	○	○
Front ballast 9 layers	/	○	●	○	○
Front ballast 11 layers	/	●	○	○	○
Without rear ballast	/	○	○	○	○
Rear ballast 1 layer	/	○	●	●	●
Rear ballast 2 layers	/	●	○	○	○
Tyre					
9.5-24 paddy field tyre/14.9-30 paddy field tyre	/	○	○	○	○
11.2-24 paddy field tyre /13.6-38 paddy field tyre	/	○	○	○	○
11.2-24 paddy field tyre /16.9-34 paddy field tyre	/	○	○	○	○
11.2-24/16.9-34	/	○	○	●	●
12.4-24/16.9-34	/	●	●	○	○
11.2-24 paddy field tyre /16.9-30 paddy field tyre	/	○	○	○	○
11.2-24/16.9-30	/	○	○	○	○
12.4-24 paddy field tyre /16.9-34 paddy field tyre	/	○	○	○	○
12.4-24 paddy field tyre /16.9-34 paddy field tyre	/	○	○	○	○
13.6-24/16.9-34	/	○	○	○	○
9.5-24/14.9-30	/	○	○	○	○

Technical parameters

Model	Unit	RH904	RH1004	RH1204	RH1304
Air filter					
External wet air filter	/	●	●	●	●
PTO spline number					
6 splines	/	●	●	●	●
8 splines	/	○	○	○	○
Brake system					
Service braking system	/	●	●	●	●
Park brake	/	●	●	●	●
Trailer brake	/	○	●	●	●
Without trailer brake	/	●	○	○	○
ROPS/Cabin					
ROPS	/	○	○	○	○
ROPS+ Canopy	/	●	●	○	○
Cabin with fan	/	○	○	○	○
Cabin with A/C	/	○	○	●	●
Weight					
Without cabin(weight)	kg	3730	3730	3730	3730
With cabin(weight)	kg	4000	4000	4000	4000
Without cabin(Min. weight)	kg	3980	3980	3980	3980
With cabin(Min. weight)	kg	4250	4250	4250	4250
Dimension					
Rear tyre number	/	16.9-34	16.9-34	16.9-34	16.9-34
Length (including front ballast and rear suspension)	mm	4700	4700	4700	4700
Min. width	mm	2000	2000	2000	2000
Height(muffler top)	mm	2900	2900	2900	2900
wheelbase	mm	2352	2352	2352	2352
Wheel track(front/rear)	mm	1650 (ex-factory) 、 1740/1580 (ex-factory) 、 1670、 1770			
Ground clearance	mm	430	430	430	430



# Product dimension

Product configuration description: with cab, with front ballast, configured with 16.9-34 dry land tyre



# Product dimension

Product configuration description: ROPS, without ballast, configured with 11.2-24 paddy field tyre

