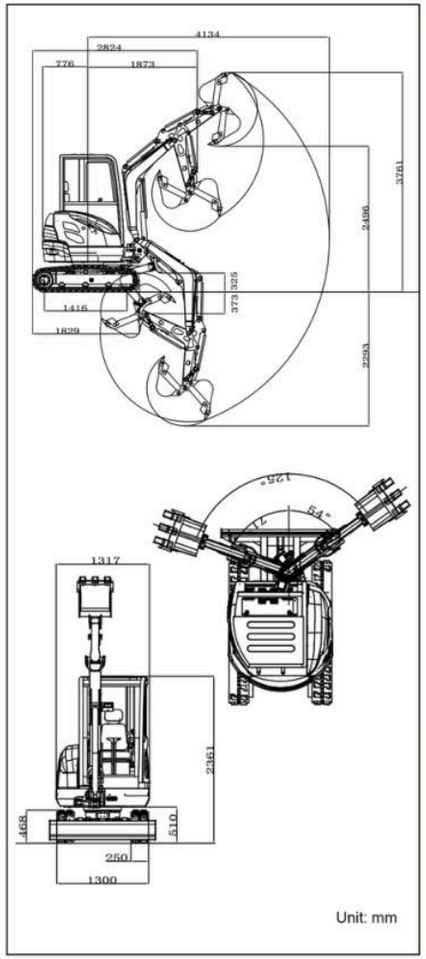
## ■ SCOPE OF WORK




## ■ SPECIFICATION

| | Model | | R22PRO |
|---|---|---|---|
| Basic parameters | Machine working weight | lb(kg) | 5228(2371.5) |
| | Bucket capacity | ft³(m³) | 1.9(0.054) |
| | Travel speed low/high speed | mph(Km/h) | 0-0.93/01.74(0-1.5/0-2.8) |
| | Gradeability | % | 30 |
| | Ground pressure | Kpa | 33.4 |
| | Maximum digging force | kN | 18.4 |
| | Maximum digging radius | in(mm) | 163.1(4143) |
| | Maximum digging depth | in(mm) | 90.3(2293) |
| | Maximum digging height | in(mm) | 148.1(3761) |
| | Maximum unloading height | in(mm) | 98.3(2496) |
| | Maximum deflection angle | ° | 125 |
| | Track extension range | in(mm) | 51.2-59.1(1300-1500) |
| Engine | Engine brand | | Kubota |
| | Engine model | | D1105 |
| | Maximum horsepower | hp(ps) | 54.4(24.75) |
| | Maximum power | Kw | 18.2 |
| | Maximum speed | rpm | 3000 |
| | Displacement | gal(L) | 0.3(1.123) |
| | Number of cylinders | | 3 |
| | Cooling method | | Water-cooled |
| | Engine oil change amount | gal(L) | 1.1(4.2) |
| | Fuel form | | DIESEL |
| | Fuel grade | | 0/-10 |
| | Theoretical fuel consumption | gal/h(L/h) | 1.3-1.5 |
| Body | Transport length | in(mm) | 2824 |
| | Transport width | in(mm) | 1300 |
| | Transport height | in(mm) | 2361 |
| | Counterweight ground clearance | in(mm) | 510 |
| | Bucket width (mm) | in(mm) | 450 |
| | Boom length (mm) | in(mm) | 1830 |
| | Arm length (mm) | in(mm) | 1250 |
| | Bulldozer blade width (mm) | in(mm) | 1300 |

## ■ HYDRAULIC SYSTEM

| | | | |
|---|---|---|---|
| Main pump type/model | Load sensitive variable piston pump/28 | Maximum set pressure (Mpa) | 20MPa |
| Main pump brand | Taifeng | Travel hydraulic motor type | LTM03CDK |
| Main pump maximum flow (L/min) | 67.2 | Travel motor brand | Likechuan |
| Multi-way valve | 9-way hydraulic multi-way valve | Motor displacement | 11-20 |
| Multi-way valve brand | Taifeng | Slewing hydraulic motor type | Likechuan |
| Rated set pressure (Mpa) | 18MPa | Displacement | 15.1 |

- Please read the instruction manual carefully and use the machine correctly.
- Always wear a seat belt when working. (ROPS specifications only)
- If you are operating construction machinery with a machine mass of less than 3 tons, you must take the "Special Training for Vehicle-Mounted Construction Machinery Operation" course beforehand. If the machine mass is 3 tons or more, you must take the "Vehicle-Mounted Construction Machinery Operation Skills Course".
- To prevent breakdowns and accidents, be sure to inspect the machinery regularly.
- Specific voluntary inspections are required to be carried out by an inspection company registered with the Minister of Health, Labor and Welfare or the Director-General of the Labor Standards Inspection Bureau.

RIPPA®

RIPPA GROUP

# R22PRO



# Further improve work efficiency

The R22 PRO, which prides itself on its excellent finish and overwhelming trust, has unveiled its long-awaited crane specifications.While improving work efficiency, it also has environmentally friendly properties such as low fuel efficiency, low vibration, and low noise.The pursuit of driver-centered safety and the use of advanced digital instruments for operability all add to the mature flavor.

# NEW MODEL DEBUTS

# R22PRO




**Comply with European exhaust gas fifth emission standard**

**Comply with U.S. EPA exhaust emission standards**

The machine is equipped with an environmentally friendly engine. It meets Euro V and EPA emission standards, is fuel-efficient, low-noise, and can achieve high power output. Durability, safety and comfort are comprehensively upgraded. Compact design delivers powerful performance. The excellent performance brought by the abundant torque greatly contributes to the improvement of workability.

# PERFORMANCE

## Outstanding power and smooth operation for superior operability

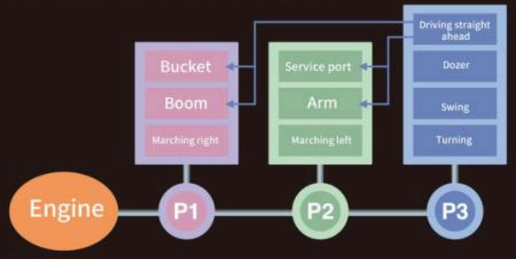
● Options for crane specifications

- Bucket cylinder cover
- Arm cylinder cover

### Powerful digging force and 4-way operation

### NEW-H・M・S hydraulic system

Adopts a 3-pump system that uses independent pumps for the boom, arm, and swing, and is equipped with a control valve with a wide control range and a variable displacement pump. With smooth, quick, and powerful work, we can meet even the toughest demands at a high level.







### Variable leg specifications (optional)

### Convenient R22 PRO

### Vehicle width when reduced: 1300mm

Variable leg specifications in consideration of situations where the approach road is narrow. It exhibits high stability by being compact at 1,300mm when traveling and transporting, and of course expanding to 1,500mm when working.

● **Powerful drilling performance**
Concentrates hydraulic power to the front and delivers powerful digging power.

● **Equipped with a straight running circuit**
Even if you operate the front while driving, there is no meandering or speed change, and stable straight-line driving is achieved.

● **4 consecutive operations possible**
The optimal matching of the 3 pump system and hydraulic system allows simultaneous operation of the bucket, boom, arm, and rotation.

● **Easy to load and unload on truck**



Compact when traveling and transporting
**Reduced to 1,300mm**

Improved stability during excavation work
**Expanded to 1,500mm**

### Approaching the 3t class

### Suitable for 2.5 liters R22 PRO

● Although it is a 2.5t class machine, it exhibits excavation performance and stability approaching that of a 3t class machine. Contributes to increased efficiency with work capacity that exceeds that of its class.

● Achieves speedy front movement by constantly optimizing hydraulic pressure distribution. Combination work can be done extremely smoothly.

● Designed in pursuit of excellent stability, it is effective when attaching attachments or on sites that involve lifting work.

● The service port has ample oil flow capacity, making it compatible with attachments such as breakers. It responds to harsh use with stable operation. (Service port specification option)




*The photos shown are for the catalog with options installed. Ground the work equipment when leaving the site.

# WHILE IMPROVING HOMEWORK EFFICIENCY, ACHIEVE LIVABILITY AND SAFETY.

# COMFORTABLE CAB




**TWO PILLARS / OPG • FOUR PILLARS / OPG**

**CANOPY CAB + SEAT BELT**

For TOPS/ROPS/OPG that pursue operator safety, please use the Canopi Cabs (with seat belts) corresponding to Do Level I to further pursue safety. Implement a safety structure to protect the operator in case of a fall. The design of the boarding and alighting space is spacious, and getting on and off is also very easy. At the same time, sudden falling objects on site are also protected.

● **CAB STANDARD EQUIPMENT**

**Front tempered glass / front window open / ashtray / heater**

※ Tops: protect over protective structures
The structure to protect the driver with the seat belt mounted in the roll. fitted to the test conditions of the mini shovel overturn protection structure.

※ OPG (top guard):Structure to protect drivers from falling objects.
is suitable for test conditions of top guard levell.

※ ROPS: roll over protective structures
Structure to protect the driver with seat belt when falling.earthenware machine - suitable for test conditions of overturning protection structures.




**FULL OPEN BONNET**

The rear and right side bonnets can be opened wide without tools, allowing quick daily inspection and maintenance of the engine and fuel system. In addition, the inspection and maintenance points for the hydraulic system are centrally located on the right side of the aircraft, dramatically improving work efficiency.

**OPENABLE WINDSHIELD**

The openable design allows the operator to open the windshield when needed to enhance air circulation in the cab, which is particularly suitable for high-temperature working environments and improves the operator's comfort.





**One touch easy operation**

**Smart big screen**

The intelligent large screen displays the machine operating parameters. The error codes and warning lights on the screen immediately notify the operator of overheating, hydraulic system abnormalities and charging system abnormalities. The simple design, convenient access and easy-to-read indicators enable the operator to always grasp the status of the machine.




**Herringbone track**

Engineering rubber tracks can be matched with high-quality wear-resistant steel tracks for smooth walking



**Air conditioner**

The cab specification is equipped with an air conditioner as standard, providing a comfortable working environment at all times, even during the midsummer and extreme cold seasons.hydraulic and fuel.



**LOOSE FEELING!**

**COMFORTABLE OPERATION**

Ensure spacious foot space and support leisurely and smooth operation. The same operating feeling as a mainframe, achieving stress free operation.

**Comfortable work space**



# MAINTENANCE

## Mart maintenance and reliable durability.

### Simply switch on and off

Double opening engine hood

Due to the lack of tools to significantly open the rear and right upper covers, daily inspections and maintenance around the engine and fuel system are simply possible. During the formal overhaul, the disassembly of the rear and right engine covers can be carried out quickly and accurately within just a few minutes, and the internal inspection and overhaul can be carried out quickly and accurately.

### Sturdy front

The front end, root, swing pivot, and travel motor support of the boom subjected to heavy loads during homework are reinforced with cast steel materials to enhance strength. In addition, the front fulcrum is reinforced by a large diameter front fulcrum pin.



# WE ARE RIPPA

Shandong Rippa Machinery Group Co., Ltd. is located in the Sixth Industrial Park, Jining high tech Zone, Shandong Province. It is a state-level high-tech enterprise with the right to import and export;

The company's employees are vigorous and enterprising, constantly creating the legend and glory of Rippa!




RIPPA®

**Shandong Rippa Machinery Group Co., Ltd.**

Add: No.6 Industrial Park, Chongwen Avenue 2166, Gaoxin District, Jining City, Shandong Province

www.rippa.com

Some specifications are based on engineering measurements and may deviate from actual conditions. Specifications are for comparison purposes only and are subject to change without notice. Specifications of individual RIPPA equipment will vary based on normal variations in design, manufacturing, operating conditions and other factors. Some pictures of RIPPA equipment are not limited to standard packages.