FMWORLD

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FMWORLD
/FOR YOU FOR THE WORLD/

RICE TRANSPLANTER
HIGH SPEED & HAND TYPE



COMMITTED TO
FULL MECHANIZATION
OF MODERN AGRICULTURE

Hand Type Rice Transplanter

Product Protfolio



Hand Type 4 Row

Power: gasoline engine 4.5HP
Row Spacing: 300mm
Working Efficiency: 0.09-0.2hm²/h



Hand Type 6 Row

Power: gasoline engine 4.5HP
Row Spacing: 300mm
Working Efficiency: 0.15-0.35hm2/h

Transplanting system

Transplanting space and depth can be adjust to meet different agronomic needs.
Automatic balance ensure consistent transplanting depth in uneven environments.

Drying system

Good passability of large diameter wheels.
Bevel gear transmission is stable and reliable.

Power system

High output & highpowered engine



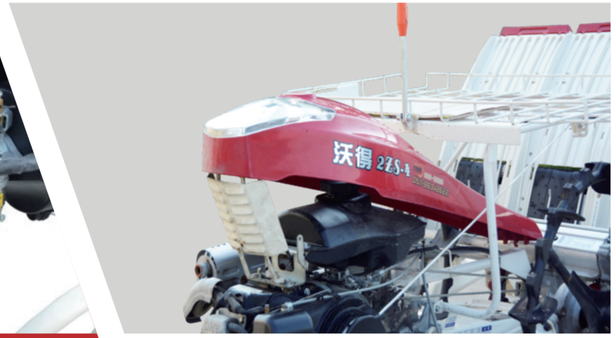
Operation system

Humanized operation design reduces labor intensity and improves comfort.



High output & high-powered engine

- Equip with 4.5HP OHV engine, high efficiency, low vibration and low failure rate.
- Strong power to ensure efficient working, work freely even in muddy field.



Easy to open hood

- The engine cover is easy to open, convenient for inspection and maintenance.

Good passability









1. Hexagonal design of walking axle, easy to disassemble, reliable to walk, and effectively prevent deviation.
2. Adopt 660mm large diameter wheels to ensure the adaptability and passability of muddy fields.
3. Adopt bevel gear transmission to ensure the stability and reliability of walking and operation.
4. Equip with a protective device to avoid collision damage between the guide rail and the ridge of the field during working.

Transplanting system

Horizontal adjustment

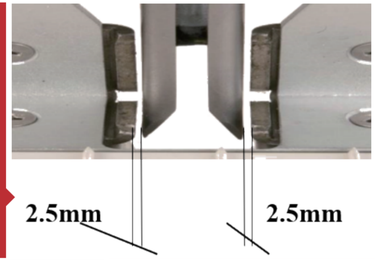
Adopt 18,20,26 third gear adjustment to meet different agronomic requirements.

Note: the amount of seedlings taken for 14 times is optional to realize the dual use of planting and transplanting.



Seedling Outlet

Adopt wide seedling outlet and wide seedling needle, equip with14-hole gears to increase the seedling volume adjustment.



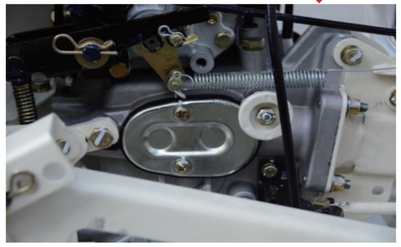


Transplanting Arm

The seedling needle made of stainless steel material will not hurt the seedlings and enhance the durability.

Planting space adjustable

The five grades of 12cm, 14cm, 16cm, 18cm and 21cm are adjustable to meet different agronomic requirements.







Transmission box

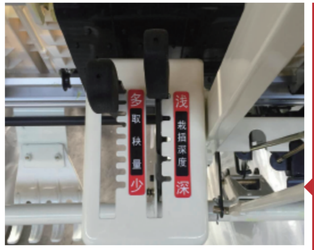
Adopt engine oil lubrication to improve the durability and reliability compared with traditional grease lubrication.





Stable planting system

Adopt integral belt conveying mode, with friction point wide feeding belt, keep the bottom of the seedling flat, accurate seedling delivery, and adapt to the technical features of floppy disk and double film seedling raising.



Planting amount & depth adjustable

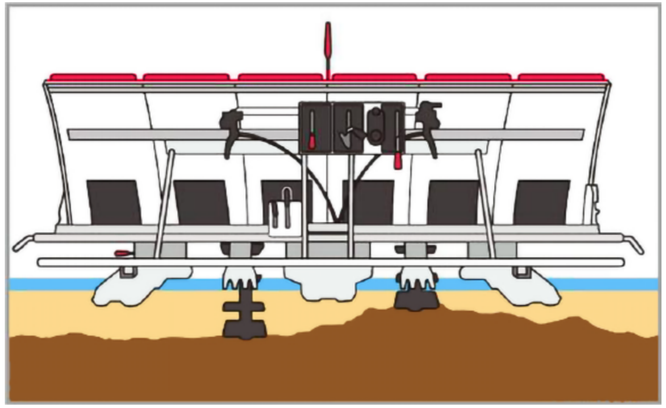
Adjustable planting depth (7~37mm).By adjusting horizontal transmission times and longitudinal seedling quantity handle to meet different requirements.





Height adjustable

The body of the rice transplanter can rise up to 45cm,it can work normally in muddy fields.



Automatic balance

Use the balance board to realize the automatic balanceto, even in the uneven working environment, it can also work horizontally to achieve consistent planting.

Technical Parameters

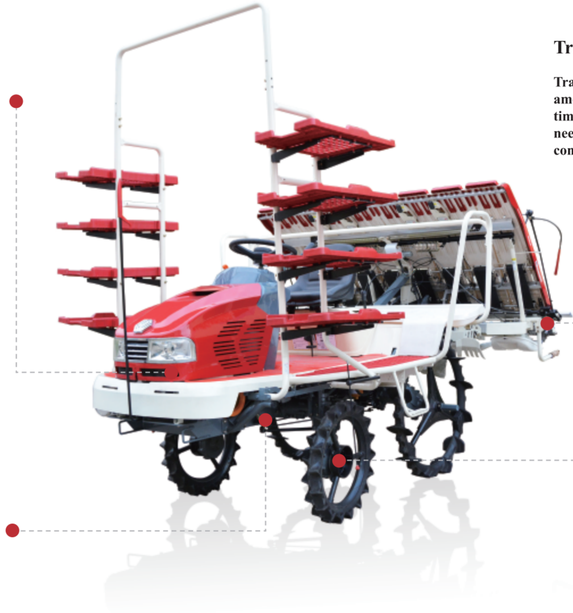
Model	2ZS-4	2ZS-6
Engine (gasoline)	4.5HP	
Type	Hand type	
Overall size(l*w*h)(mm)	2140*1630*910	2370*1930*910
Weight(Kg)	162	187
Starting type	Pulling wire/electrical starting (optional)	
Variable speed method	Gear shift, 2 forward 1 reverse	
Number of rows	4	6
Row spacing(mm)	300	300
Spacing in row	120,140,160,180,210	
Transplanting depth(mm)	7-37 (5 levels)	
Working efficiency(hm^2/h)	0.09-0.2	0.15-0.35

High Speed Rice Transplanter

Product Protfolio

Power system

Stage three high pressure common rail three cylinder diesel engine



Transplanting system

Transplant spacing, longitudinal seedling taken amount, plant depth, and horizontal delivery times are adjustable to meet different agronomic needs.Electronic automatic balance system ensure consistent transplanting depth in uneven environments.

Humanized operation design

Using large displacement HST, simple operation, independent elastic suspension system, reduce vibration and increase comfort

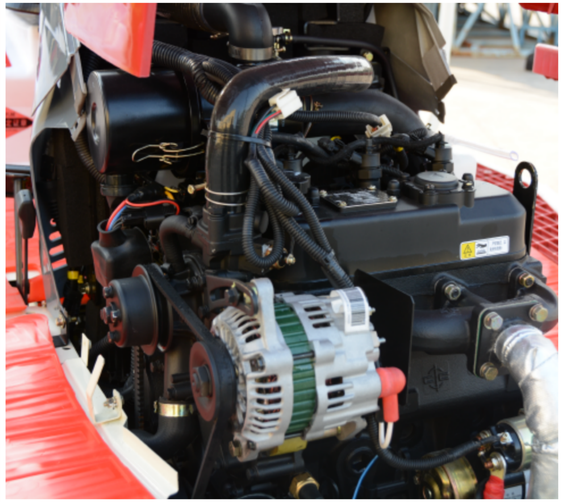
Driving system

Four-wheel drive system with excellent traction , large diameter wheels have good passability

Power system

High pressure common rail three-cylinder diesel engine

- The water-cooled three-cylinder 20-horsepower high-pressure common rail diesel engine (with another 5 horsepower in reserve) fully meets the needs of the muddy fields to exert superior operating performance.
- Low fuel consumption reduces user costs.
- Low noise, low vibration reduce the fatigue of the driver.







Two diesel filter

Each filter is equipped with an alarm device, once the fuel is blocked, the buzzer will alarm.

Driving system





Integral chassis design

- The chassis is self-made by World company, which reduces the cost of accessories while ensuring quality.
- The body is firmer and stronger.

Good passability & Excellent traction

- Equipped with large-diameter wheels, the ground clearance of chassis reaches 45cm, which ensures the passability of working in muddy field.
- The four-wheel drive system has good driving force and anti-sagging force when passing through the ridge and muddy fields.





Transplanting system

Electronic automatic balance system

Automatically control the left and right level of the transplanting arm, keep the seedling planting depth consistent in different field operations, and ensure the accuracy of transplanting.

02





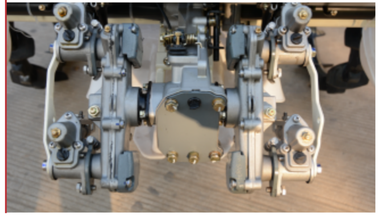
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Transplanting arm

- The seedling needle made of stainless steel material will not hurt the seedlings and enhance the durability.
- The seedling rod is made of stainless steel to enhance corrosion resistance.

Rotary transplanting mechanism

The newly designed super-rotary type planting reduces the gear gap, improves the transmission accuracy, reduces the vibration of the rotation, and realizes high-precision rice planting.



03

04



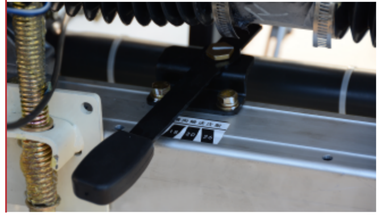
Transplant spacing adjustable

The plant spacing can be adjusted in six levels, and the single handle is easy to operate.

Horizontal seedling delivery times 18, 20, 26

One handle can easily solve the agronomic requirements of various regions .

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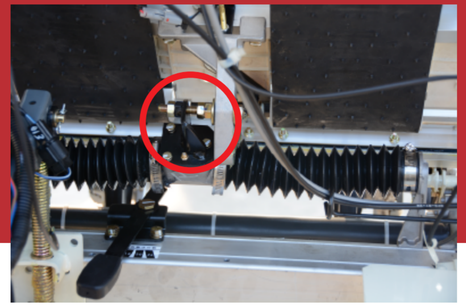
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Longitudinal amount of seedlings taken (mm): 8-18

Planting depth adjustable

10-53 (mm) (5 levels), which meets the agronomic requirements of various regions.

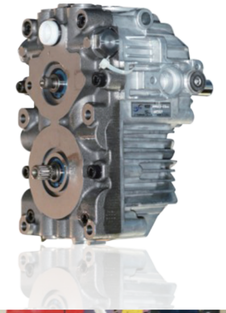
Transplanting system





In order to ensure that the failure rate of the rice transplanter is minimized during working, World Agricultural Machinery selects high-quality parts for the main components of the rice transplanter. Such as: drive screw, chuck, planting drive shaft assembly, etc.

Humanized operation design



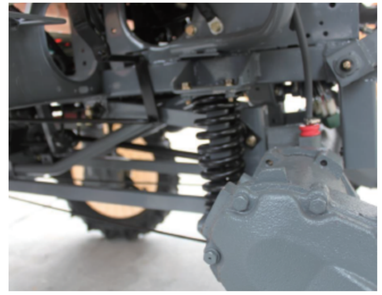
HST

Large-displacement HST, one-rod operation, use the ergonomic operating handle to switch forward and backward directions, reduce work fatigue and improve work efficiency.









Comfort

The independent elastic suspension system of the four-wheel bridge is adopted to greatly reduce the vibration and make the operation more comfortable.

Advantages of self–made technology



FM WORLD “Intelligent Manufacturing ”

The self-manufacturing rate of parts is more than 80%；
Controllable parts cost and high cost performance；
Good versatility of parts with other brands.

Optional device



Flat board

The flat board is in the same state as the central floating board during planting operations. Press mud and restrain the unevenness in the field. Flatten the track pressed by wheel to smooth the surface of the paddy field. Manual 7-speed adjustment, wide adjustment range, strong adaptability.

Auxiliary wheel

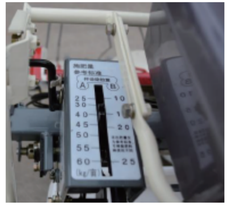
Optional auxiliary wheel device, it can easily pass through muddy fields during planting operations, which increases the anti-sagging performance and improves the passability.



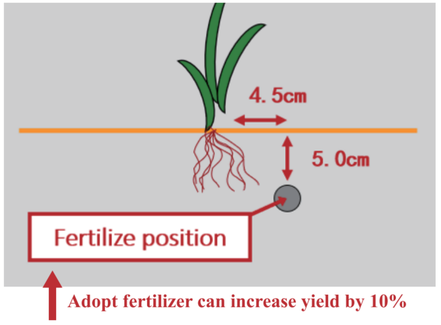
Optional device











Fertilizer

- Fertilizer box for one-time fertilization.
- Fan blowing prevents fertilizer blocking.
- Centralized discharge of surplus fertilizer.
- Simple operation & maintenance.
- Save 10%~30% of fertilizer usage.
- Adjustable fertilization.
- Automatic alarm for lack of fertilizer.

2nd Generation High Speed Rice Transplanter 2ZGF–6E/2ZGF–8F



Features:

- The engine horsepower is increased to 25 horsepower, the torque is increased to 25%, and the speed is increased by 14.3%. The mechanical fan is used for better heat dissipation.
- Integral chassis and reinforced gearbox, the structure of the whole machine is stronger.
- The whole machine platform is enlarged, the seedling volume is increased by 12%, and the fuel tank is enlarged to 34L, which improves the operation endurance.
- The diameter of the rear wheel is increased to 95cm, the minimum ground clearance is increased to 50cm, and increase the trapping gear to make the muddy field more passable.
- The main operating handle on the right makes the operation more comfortable.

Wide & Narrow Row Rice Transplanter 2ZGF–8G

1. Wide row: 33cm, narrow row: 17cm.
2. Improve photosynthesis rate.
3. Reduce pest impact.
4. Enhance stress resistance of rice plants.
5. Convenient for plant protection operations.
6. Marginal effect of increasing yield.



Technical Parameters

Model		2ZGF-6A	2ZGF-6B	2ZGF-8C	2ZGF-8B	2ZGF-6E	2ZGF-8F	2ZGF-8G
Engine		Diesel 20HP	Gasoline 22/20.5HP	Diesel 25HP	Gasoline 22/20.5HP	Diesel 25HP	Diesel 25HP	Diesel 20HP
Overall size(l*w*h)(mm)		3250*2220*2400	3250*2220*2400	3250*2380*2400	3250*2380*2400	3140*2230*2370	3140*2500*2370	3140*2230*2370
Weight(Kg)		730	700	780	730	880	920	930
Min clearance ground(mm)		450	450	450	450	500	500	500
Transmission mode		HST&The Auxiliary Gear						
Driving mode		4-wheel driven						
Steering		Hydraulic						
Number of rows		6	6	8	8	6	8	8
Row spacing(mm)		300	300	250	250	300	250	170/330
Spaceing in row		100,120,140,160,180,210,240						
Transplanting depth(mm)		10-53 (5 levels)					10-53(7 levels)	
Working efficiency(hm^2/h)		0.2-0.4	0.2-0.5	0.23-0.48	0.2-0.55	0.2-0.45	0.2-0.59	0.2-0.5
Fertilizer (optional)	Type	Ditching on the side to fertilize,forciblym buried						
	Place(mm)	Seeding side 45,depth 50						
	Capacity(L)	73/65					90	