



MAIJO WENOVUS

COMBINE HARVESTER

MW-CH110



High-Performance Combine Harvester for Indian Farmlands

PRODUCT OVERVIEW

**SPECIAL FEATURES OF
COMBINE HARVESTER
MW-CH110**

270° Rotation Grain Unloading

Extended Grain Unloading

1.6m³ Large Grain Tank

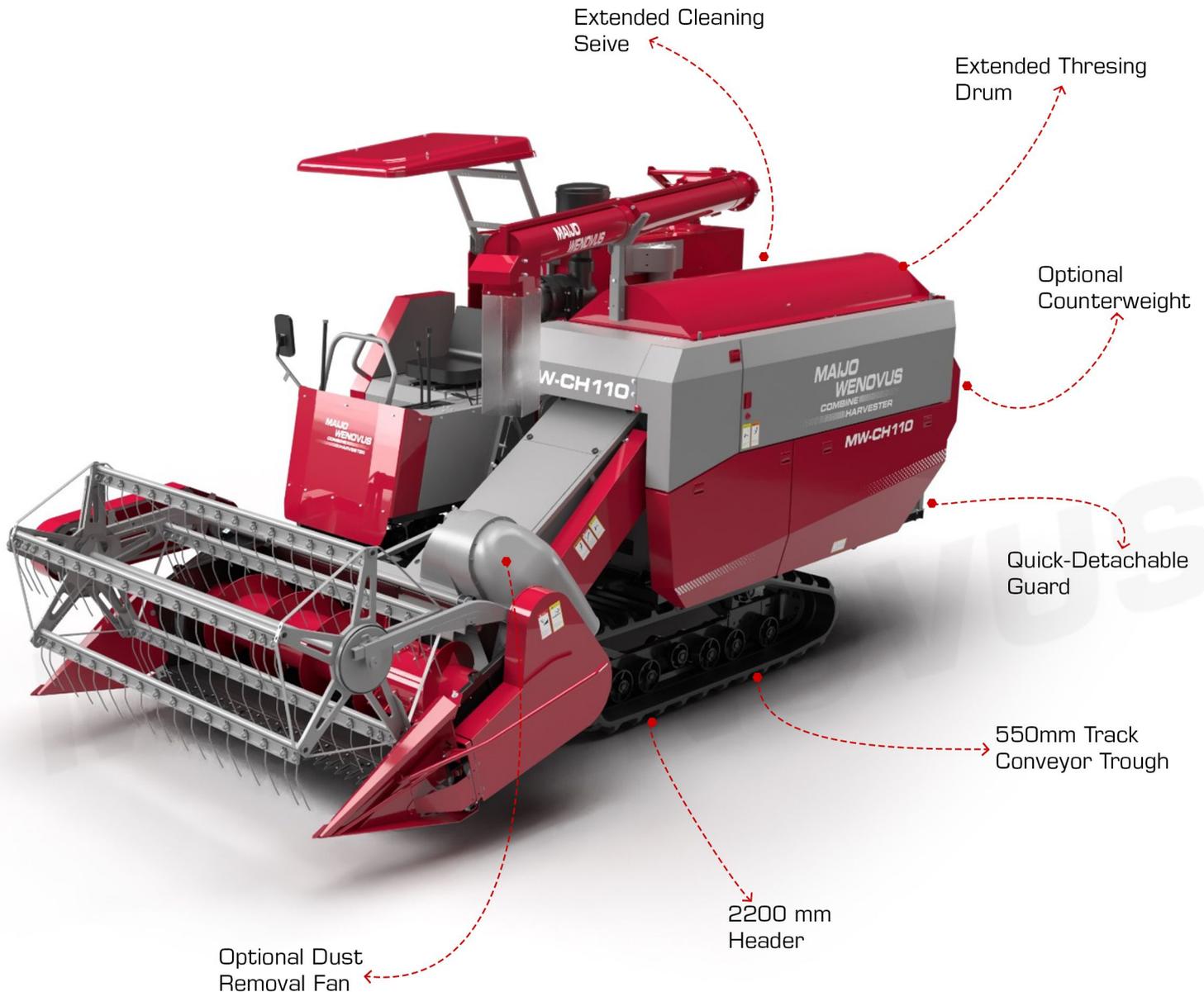
QUANCHAI High Horsepower Engine

55 CC Large Displacement HST

56-Section 550mm High Lug Track

Reinforced Chassis





| Highlights of MW-CH110

- I. Higher Engine horsepower for Extended Operation
- II. High Performance Capability in Muddy Fields
- III. Efficient Cleaning for Grain
- IV. Upgraded Core Components for Enhanced Durability
- V. Large Grain Tank
- VI. Smoother Feeding for Increased Productivity
- VII. Reinforced Chassis and Frames for Tough Conditions
- VIII. Fully Sealed Heavy-Duty roller parts for Reliable Performance

OPERATIONAL PERFORMANCE

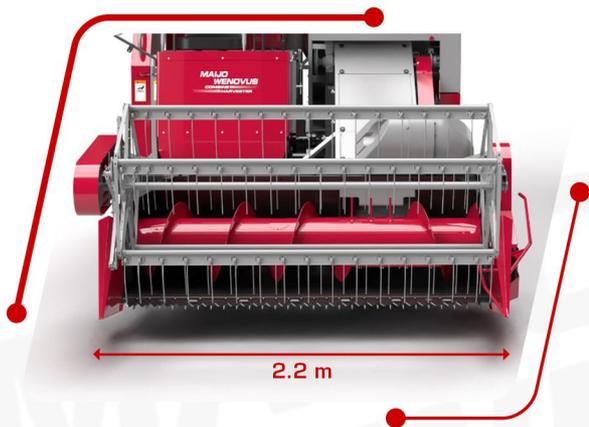
| Equipped with High Horse Power Diesel Engine

Equipped with the 4-cycle vertical-type 4-cylinder liquid-cooled 110 HP diesel engine. This high-output engine, though compact in size, provides high output density coupled with low fuel consumption performance, thus allows efficiently handling harvesting operation of high-yield rice and inside the wet paddy fields.



| Wide Cutting Width

With the wide cutting width of 2.2 m, the number of turns for field operation required to make is reduced, for optimum operational performance.



| Optimum Performance in Fallen/lodged Crops

With the increased reel lowering allowance, the tine is able to securely raise and reap even fallen rice stocks. Furthermore, the reel revolution can be freely regulated in three stages depending on each specific crop condition.



| High Capacity Fuel Tank

The 220 L fuel tank capacity enables work for a whole day (24 hours) without refueling. *For working conditions with wet land paddy and dry land paddy fields.





| Bigger Capacity Grain Tank

The large capacity of 1700L (1.6m³) grain tank makes it possible to efficiently harvest grain for longer periods of time even in large fields.

| Maximum Travel Speed of 2.70 m/s

With the maximum travel speed of 2.70 m/sec, moving from field to field and the travel during crop discharge can be speedily accomplished, leading to superior operational performance.



| Reverse Cutter Bar Mechanism

The rotation of the feeder, the reel, the cutting blade, and the auger drum is reversed simply by pulling the lever conveniently located to the side of the operator's seat, helping easily solving problems of clogging in the harvesting unit.

| 3 Level Reel Speed

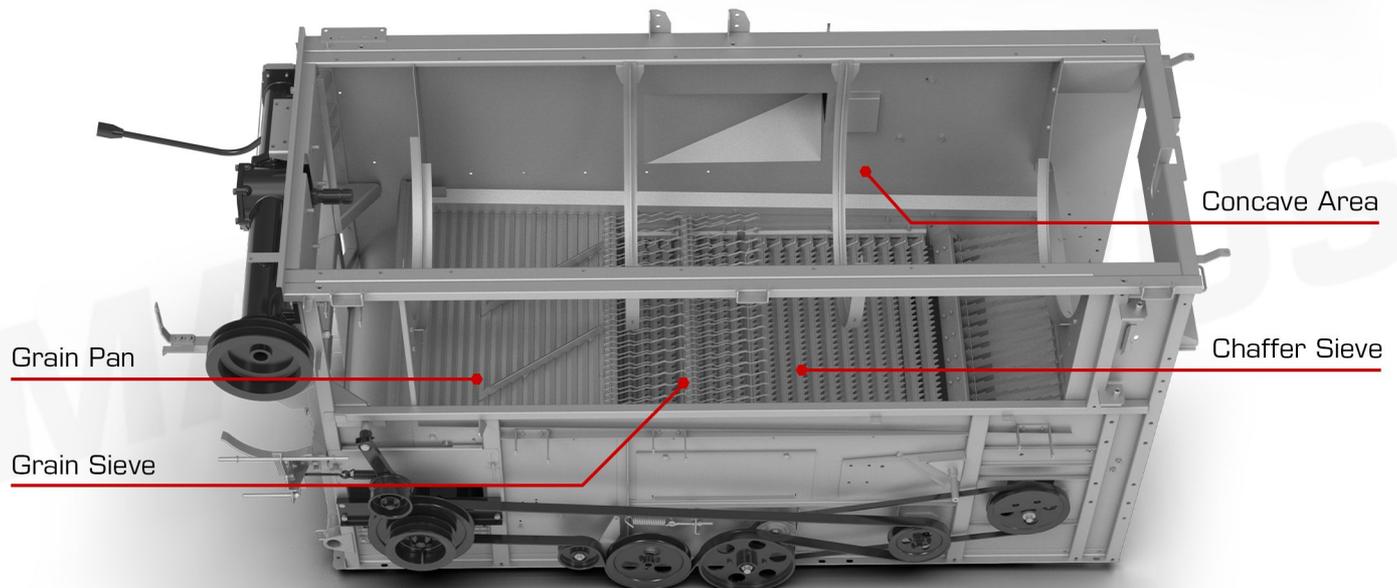
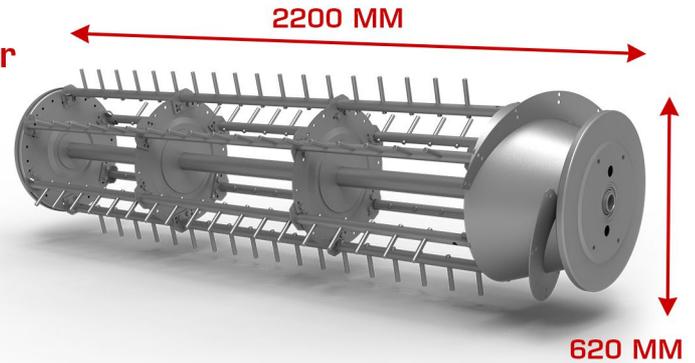
The reel revolution can be changed in three speeds and adjustable range has been expanded. Reel speed can be changed to match machine speed and various crop conditions, such as fallen crop and voluminous crop, for smooth harvesting operations to avoid head loss and to prevent crop falling.



THRESHING PERFORMANCE

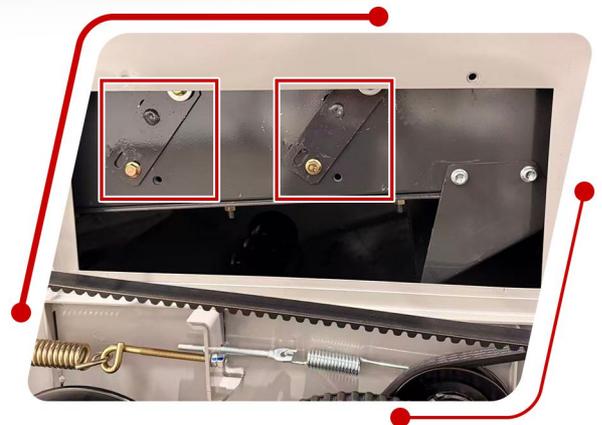
| Long Large-diameter Threshing Cylinder

The long (2200 mm) large-diameter (620 mm) threshing cylinder is used. Securing a wide threshing space contributes to further enhance the threshing performance of high volume crop with the resulting effect of reduced threshing loss.



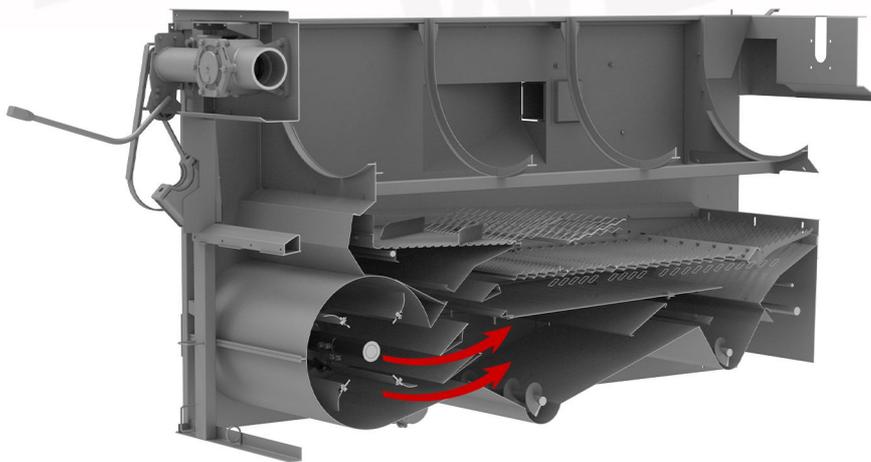
| Front-rear Individual Adjustable Sieves

MW-CH110 offers five-stages independent adjustment for the front and rear. The chaff sieve can be adjusted depending on the crop volume and it reduces cut straw and grain loss. For example, depending on crop conditions, the front section can be closed to reduce cut straw, and the rear section can be opened to reduce



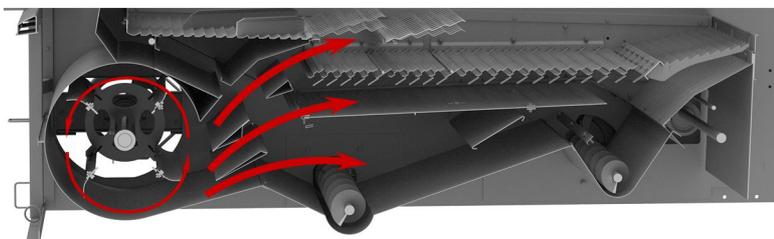
| Wider Grain Cleaning Section

The sorting section is designed wider thus enabling high-precision sorting operation.



| 4 - blade Winnowing Fan

The 4-blade winnowing fan design works to secure a large and stable air volume without irregularities. It improves the accuracy of sorting.



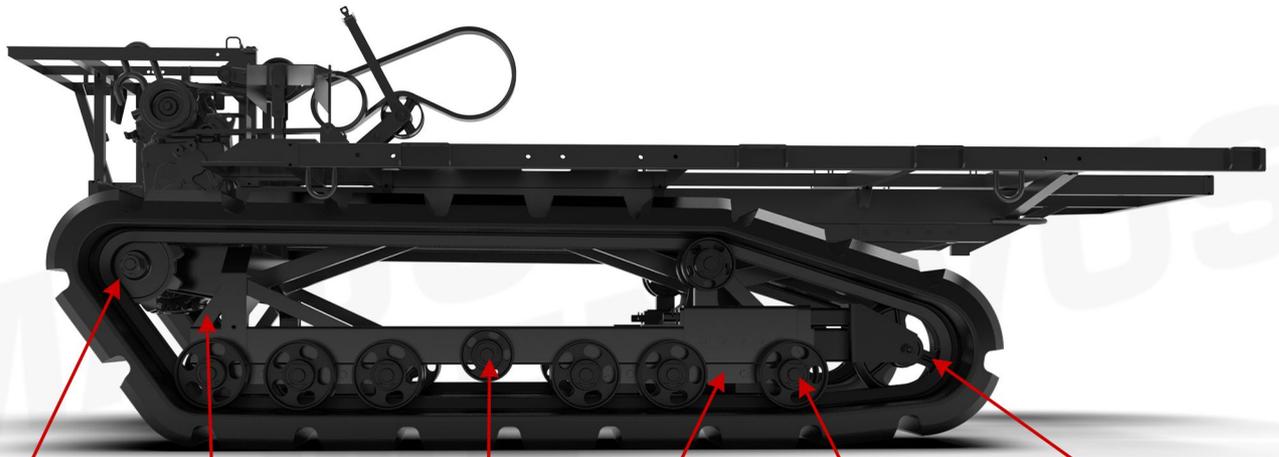
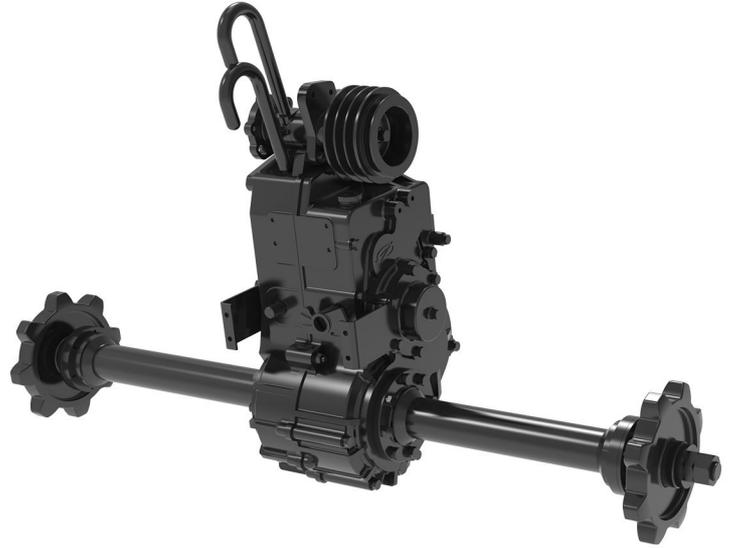
| 3-way Air Stream Cleaning System

This feature delivers a stable stream of air throughout the sieve case. This contributes to precision separation by minimizing chaff and waste material even when processing a high-volume of grain.

DURABILITY

| Highly Durable Transmission

Fitted with 95 CC gearbox along with high-durability oil seal and bearings, in addition to the contained valves and cylinders help further enhance the durability. Besides, replacement of seals and bearings is far easier to do.



Drive Sprocket

Front Guide Rail

Balance Wheel

Rear Guide Rail

Track Roller

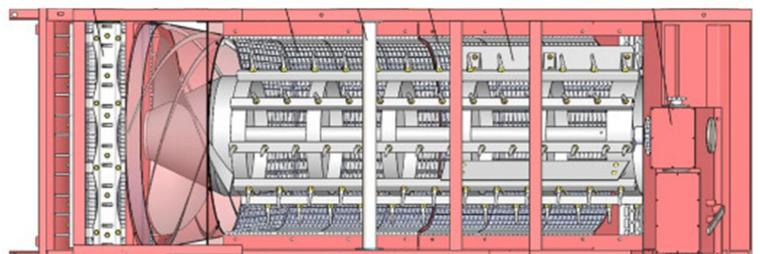
Tension Wheel

| Highly Durable Travel Section

The heat-treated track roller and the thicker rubber used at the part of passing track rollers. In addition, the thickness of the track roller receiver near the bends of the roller, which are prone to wear is 10mm. They contribute to increased durability of the travel section, besides helping extend the service life of both track roller and the rubber

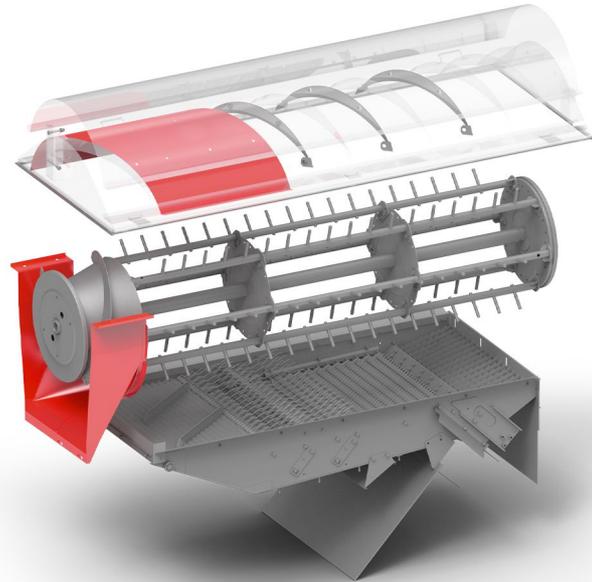
| 6-block Structure for the Concave

The concave consists of 6 blocks. It can be used for a long time by rotation. In addition, the weight per block has been reduced to make replacement easy.



| Parts Durability of Crop Threshing & Processing Unit

Wear-resistant materials are used for crop passing sections. Stainless steel plate is used for the inlet plate and the front side of top cover liner which are replaceable. In addition, a high-tensile strength steel plate is used for the header and feeder bottom plates, contributing to further enhancing wear resistance.



EASY MAINTENANCE



| Large-capacity Coolant Radiator

The generous capacity radiator is hard to suffer overheat even when working under adverse conditions.



| Right-side Cleaning Door Provision

A small cleaning window is provided on the grain tank side, making it easier to remove straw wastes.



| Concave attach / detach

The concave, divided into six parts, is lighter in weight and is far easier to remove and clean.



| Door on the Grain Tank

The grain tank has a simple locking structure and can be easily opened wide. It makes maintenance and cleaning easier.

| Upward Opening Side Cover

The side cover opens in upward direction for an added space-saving effect, making routine maintenance and reconditioning tasks far easier to accomplish.



| Single piece Drive Sprocket

The drive sprocket is single piece with long durability & quality.

| Automatic Tension Adjustment of Feeder Conveyor Chain

The feeder conveyor chain tension is automatically adjusted with a spring, making the adjustment work easier to realize, besides contributing to improved durability.



| Rear Tension Roller

This feature brings about the positive result that it is possible to replace only the worn-out section.

WET PADDY FIELD OPERATION



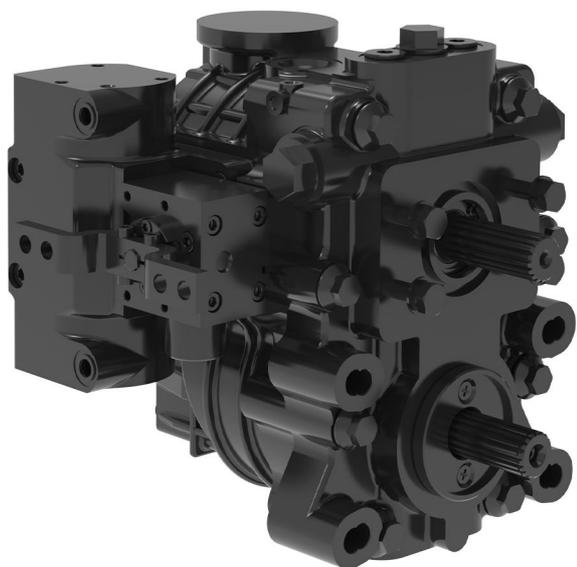
| Upper Rear Exhaust Pipe

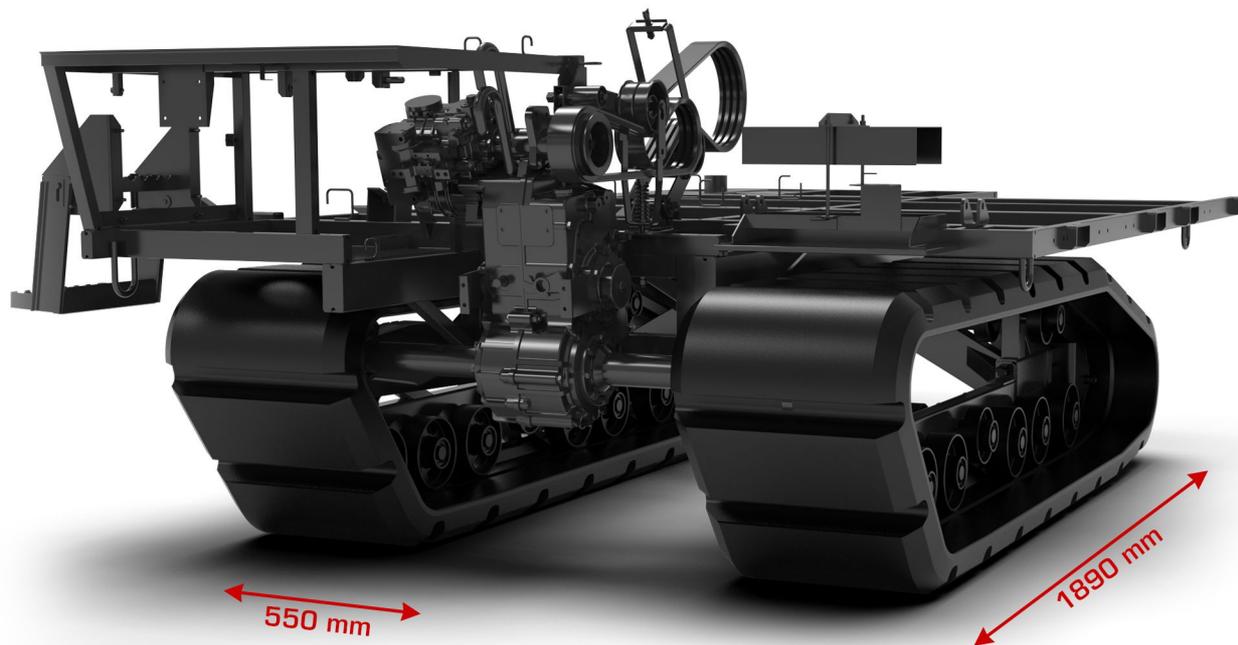
As the exhaust pipe is mounted in the upper rear position, there is no fear of catching mud when traveling in reverse in the wet paddy field.



| High Capacity HST

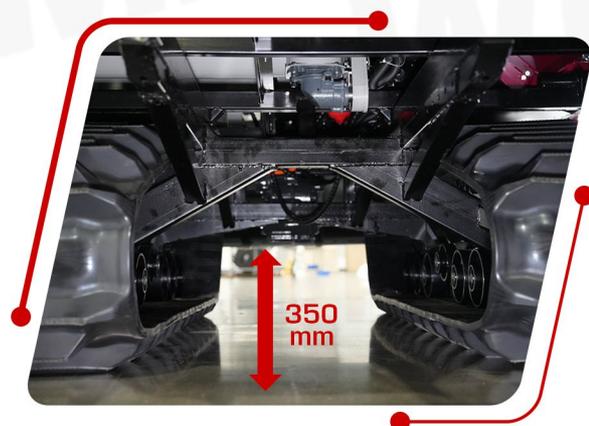
With the larger HST capacity 55 CC, the response characteristics are significantly improved. With superior transmission capability, tenacious operational performance is achieved even when working in the wet paddy field.





| Wide, Long & High-lug Rubber Crawler / Track

The wide and long crawler (width: 550 mm, grounded length; 1890 mm) featuring a wider ground contact area and smaller ground contact pressure is less prone to suffer sinking problems.

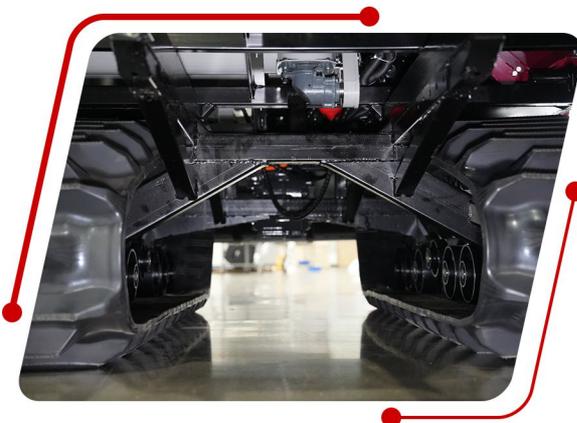


| Effective Ground Clearance

With the minimum ground clearance of as high as 350 mm, holding of mud is kept to a minimum even when working in the highly-wet paddy field, as a result, reaping operations can be efficiently accomplished.

| Optimal Body Balance

The center layout helps maintain the balance between the left and the right. The balance between the left and right helps ensure clean threshing with low loss even under poor conditions on wet paddy fields.

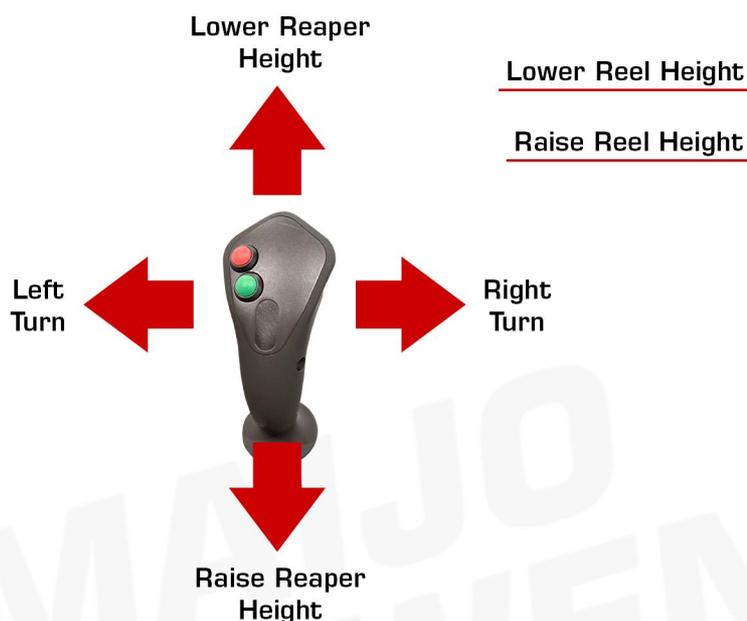


MANOEUVRABILITY

| Easy Single-lever Operation

Three operations can be performed by using a single lever on the right hand.

- (1) Make a turn
- (2) Raise and lower the reaper
- (3) Raise and lower the reel



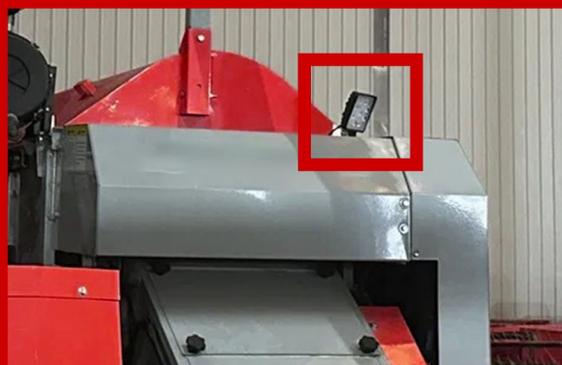
| Comfort Armrest

The operator can manipulate levers with the right hand comfortably resting on the armrest, which means that the operator is able to continue with the job at hand in the most comfortable posture position even during prolonged operations.



| Superior Visibility

The distance between the header and the driver's seat is kept long, thus providing superior forward visibility, besides making it easier to assess the cutting height and the reaping tracks.





| Wide Canopy

The large-size canopy protects the operator from the strong sunshine.

| Powerful Dust Suction Fan

The dust collector to suck out dust accumulated inside the feeder house comes as a standard feature. When harvesting dry crops, the amount of dust flying around the reaper unit and the driver's seat can be significantly reduced.



| Comfortable Operator's Space

With the extremely wide space secured all around the driver's seat, the operator may continue with the operation at hand while remaining in the most comfortable posture position even during prolonged operations.

| Easy Gear Shift

The main shift lever automatically returns to the neutral position by simply stepping on the brake pedal – this feature helps prevent jump starts at the time of re-starting the engine.



TECHNICAL SPECIFICATIONS

| Main Dimensions

Structural Type	Crawler Type, Self Propelled, Full-Feeding
Overall Dimension (LxWXH) (mm)	5350 x 2650 x 2980
Total Weight	3680
Feeding Capacity (kg/s)	6.0

| Engine

Manufacturer	Anhui Quanchai Engine Co., Ltd.
Model	4CG110M22
Structural Type	Vertical, In-Line, Water-Cooled, Four-Stroke
Cylinder Quantity	4
Rated Power (kw)	80
Fuel Tank Capacity	220
Rated Speed (r/min)	2400

| Under Chassis

Track

Ground Contact Length (mm)	1800
Guage (mm)	1250
Specification (Pitch x No. of Shoesx Width)	90 x 56 x 550
Minimum Ground Clearance (mm)	350
Transmission Type	Hydrostatic, Transmission (HST) + Mechanical Gearbox
Travel Speed (m/s)	Low 0-1.4; Medium 0-1.8; , High 0-2.68

| Header

Reel

Diameter (mm)	900
Height Adjustment Method	Hydraulic
Type	Eccentric Spring Finger
Number of Cutter Bars	5
Width of Cut (mm)	2200
Stubble Height Range (mm)	40 and above
Cutter Type	Standard
Header Augur Type	Spiral

| Wwinnowing Fan

Type	Centrifugal Turbine
Diameter (mm)	400
Quantity	1

| Threshing

Treshing Drum

Type	Longitudinal Axial Flow, Rasp Bar
Type of Threshing Elements	Rasp Bar
Quantity	1
Outer Diameter x Length (mm)	620 x 2200
Returns Processing	Auger
Cleaning Method	Centrifugal Fan + Oscillating Sieve
Concave Seive Type	Grid Type

| Grain Tank

Unloading Method	Extended Unloading, 270° Rotation Unloading
Grain Tank Capacity(m ³)	1.6
Alarm Indicators	Water Temperature, Engine Oil Level, Fuel Level, Grain Tank Full, Battery Charging,
Brake Type	Friction Disc
Re-Thresher Type	Blade Type
Lodging Adaptation(°)	Forward Harvesting <85°, Reverse Harvesting <70°
Field Efficiency (hm ² /h)	0.16~1.0
Field Efficiency (kg/hm ²)	12-30
Working Gears	3
Dust Removal Fan	Provided



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