

**WORLD EQUIPMENT(CHANGZHOU)CO., LTD**

*Presented by*

**RITA YANG**



## About US

WORLD EQUIPMENT offers a comprehensive range of products and services, includes heavy equipment , agriculture machinery.

Palm oil tractor is one of the most distinctive products, which is specially designed for palm oil plantations. WEA 4x4 all terrain vehicle developed for working in peat, soft, wet soils and hilly conditions.Strong, light weight chassis with flotation tyres to reduce soil compaction. Small Powerful 14HP Golden Fish(Similar to Kubota) Diesel engine, 22HP and 35HP(3 cylinders). Big power Engine as optional. Also have crawler types with 17HP and 35HP engine, which has a wide range of uses and superior performance, and can adapt to complex and harsh road conditions such as rice fields, swamps, muddy field roads, rugged mountain roads, soft grasslands, mountain forests and deserts, slippery ice and snow, etc., Cargo yard loading, water conservancy construction, and mining applications are widely used.



# Products For Wheel Type



WEA08 (articulated)



WEA08H (integrated)



WEA18



WEA35



# Products For Crawler Type



WEA-C3500



WEA-C5000



Our vehicles are mature and widely used in Indonesia, Malaysia, Panama, Ecuador, Peru, Guatemala, etc.



WEA08



WEA18



WEA35





GRAPPLE



FERTILIZER



SPRAYER





# Specification for wheel type

MODEL	WEA08	WEA08H	WEA18	WEA35
ENGINE	GOLDEN FISH RD140N	GOLDEN FISH RD140N	CHANGCHAI ZS1115	CHANGCHAI ZN390Q
ENGINE POWER	10.3KW/2400rpm (14 HP)	10.3KW/2400rpm (14 HP)	16.2KW/2200rpm (22HP)	26KW/2600rpm (35HP)
WHEEL BASE	2150mm	2150mm	2285mm	2350mm
TREAD WIDTH	1325mm	1325mm	1340mm	1340mm
TIRE	29*12.5-15/31*15.5-15	29*12.5-15/31*15.5-15	31*15.5-15 (400/60-15.5)	31x15.5-15 (400/60-15.5)
TRANSMISSION	4*2 REAR DRIVE/4*4 WHEEL DRIVE	4*2 REAR DRIVE/4*4 WHEEL DRIVE	4 WHEEL DRIVE	4*2 REAR DRIVE/4*4 WHEEL DRIVE
GWG	1250kg	1200kg/1250kg	2000kg	2350kg
PAYLOAD	800kg	1100kg/800kg	1000kg	1500kg
DIMENSION	3650*1620*2150mm	3650*1620*2150mm	4240*1780*2300mm	4685*1780*2290
GROUND CLEARANCE	280mm	280mm	280mm	280mm
SPEED	0-20km/h	0-20km/h	0-20km/h	0-40km/h
SHIFT	5+1	5+1	2 HIGH SPEED+2 LOW SPEED +1 REVERSE SPEED	4+1*2 HIGH-LOW SPEED
TURNING TYPE	ARTICULATE	INTEGRATED	ARTICULATE	ARTICULATE
LOADING TYPE	HYDRAULIC LIFT, STEER	HYDRAULIC LIFT, STEER	HYDRAULIC LIFT, STEER	HYDRAULIC LIFT, STEER
LOADING HEIGHT	2200mm	2200mm	2300mm	2360mm
PTO	WITH	WITH	WITHOUT	WITH
OPTIONAL	GRAPPLE/SPRAYER /FERTILIZER SPREADER	GRAPPLE, SPRAYER, FERTILIZER	GRAPPLE/SPRAYER /FERTILIZER SPREADER	GRAPPLE/SPRAYER /FERTILIZER SPREADER
	<b>SPRAYER</b>	<b>MODEL</b>	<b>FERTILIZER</b>	<b>GRAPPLE</b>
MODEL	SS-800		ST-500F	SWIVERL GEAR OD:124mm
MATERIAL	THICKENED NYLON	L*W*H	1.4*0.9*1.05m	MAXIMUM OUTRAACHP:3.0m
CAPACITY	500L/800L	CAPACITY	500L/450KG	LIFTING CAPACITY AT MAX. OUTREACH: 100kg
SPRAYER ROD LENGTH	6/8/10/12m	SPREAD WIDTH	10-20m	SLEWING ANGLE: 270°
FOR TRACTOR HP	ABOVE 30HP	FOR TRACTOR HP	Above 30HP	LIFTING HEIGHT: 3.5m
SWITCH CONTROL MODEL	SPLITTER	SWITCH CONTROL MODEL	MANUAL CONTROL(PULL CABLE)	MAXIMUM JAW OPENING: 600mm
SUITABLE	FIELD SPRAYING	SUITABLE FERTILIZER	GRANULES	
DRIVE MODEL	DRIVE SHAFT	DRIVE MODEL	DRIVE SHAFT	





## Specification for crawler type

MODEL	WEA-C3500	WEA-C5000
DIMENSION	3336x1550x2160mm	4030x1820x2300mm
BUCKET SIZE	1965x1500x550mm	2500x1600x720mm
ENGINE	GOLDEN FISH RD170N 17HP/2400RP	CHANGCHAI ZN390 35HP/2600RPM
TRANSMISSION	21-1200	21-1200
TRACK SIZE	350X90X46	400X90X56/500x90x61
TRACK MATERIAL	AGRICULTURAL RUBBER	ENGINEERING RUBBER
ROLLER TYPE	STEEL-6X180	STEEL-8X180/STEEL-9X185
CURB WEIGHT	1300kg	2400kg
PAYLOAD	3000kg	5000kg
START WAY	ELECTRIC START	ELECTRIC START
ACCELERATOR TYPE	PEDAL+HAND CONTROL	PEDAL
CLUTCH TYPE	PEDAL+ROD	/
STEERING DEVICE	TIE ROD TYPE,CLUTCH BRAKE PAD STEERING	TIE ROD TYPE,CLUTCH BRAKE PAD STEERING
MINIMUM TURNING RADIUS	2m	2.6m
SHIFT	3+1 HIGH、 LOW SPEED	3+1 HIGH、 LOW SPEED
SPEED	3-15 Km/h	3-15 Km/h
GROUND CLEARANCE	250mm	250mm
DUMPING TYPE	HYDRAULIC SELF-DUMPING	HYDRAULIC SELF-DUMPING
LIFTING DEVICE	HYDRAULIC LIFTING	HYDRAULIC LIFTING
LIFTING HEIGHT	2.2m	2.3m
LIFTING WEIGHT	1000kg	2000kg
OPTIONAL	PTO	PTO



# Specification for WEA08



REAR TIPPING HEIGHT: 2200MM



GOLDEN FISH RD140N DIESEL ENGINE (ONE CYLINDER)



WITH PTO



FLOATING TIRE: 29\*12.5-15 /31\*15.5-15



DOUBLE HEAD LAMPS



ENGINE METERS

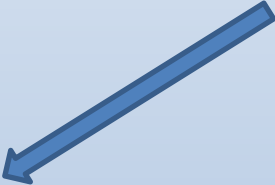
# Specification for WEA08H



CENTRE PIVOT MECHANISM



GOLDEN FISH RD140N DIESEL ENGINE (ONE CYLINDER)



ENGINE METERS



WITH PTO



FLOATING TIRE: 29\*12.5-15 /31\*15.5-15

# Specification for WEA18



TWO SEATS



CHANGCHAI SINGLE CYLINDER DIESEL ENGINE



Safety Seat Belt

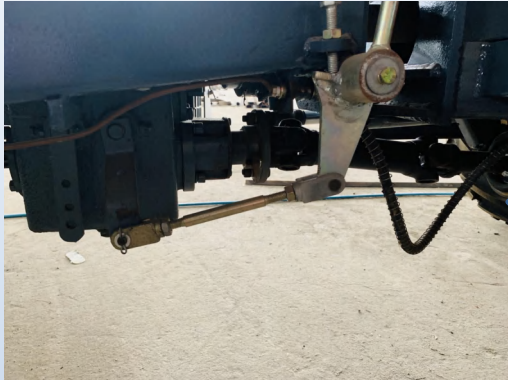


REAR TIPPING HEIGHT: 2300MM



FLOATING TIRE: 31\*15.5-15/400/60-15.5

# Specification for WEA35



SHAFT DRIVE



CHAGNCHAI 3 CYLINDER DIESEL ENGINE



ARTICULATED STEERING STRUCTURE



REAR TIPPING HEIGHT: 2360MM



HYDRAULIC LIFTING AND TIPPING SYSTEM



# Specification for WEA-C3500



REAR TIPPING HEIGHT: 2200MM



GOLDEN FISH RD170N DIESEL ENGINE (ONE CYLINDER)



STANDARD ENGINEERING RUBBER, 350X90X46



TRANSMISSION



SHIPMENT

WORLDEQUIPMENT(CHANGZHOU)CO., LTD



# Specification for WEA-C5000



REAR TIPPING HEIGHT: 2300MM



CHAGNCHAI 3 CYLINDER DIESEL ENGINE



STANDARD ENGINEERING RUBBER,  
400X90X56



ENGINEERING RUBBER MUCH WIDER,  
500X90X61



SHIPMENT PREPARATION



# SHIPMENT







# CUSTOMER VISIT



# VISIT CUSTOMER



# SPECIFICATION



## Transmission

- 6 Speed Synchomesh
- 5 FW & 1 RW



## Steering

- Hydraulic Articulated
- Less spare parts needed for wheels
- Minimize break down time
- Minimize spare part cost

# SPECIFICATION



## Drive System

- Selectable 4WD / 2WD



## **Tyres & Rims**

- Standard tyres and rim for all 4 wheels.
- Bigger size bigger ground contact (31 x 15.5 x 15)
- 12 ply

# CASE STUDY @ GENTING PLANTATIONS

**AVERAGE of MT /day**

**20 MT/DAY**

<b>LAND : LABOUR RATIO</b>	<b>MACHINE : LAND RATIO</b>	<b>MACHINE : LABOUR RATIO</b>
1 : 28	1 : 250	1 : 8

<b>SOIL TEXTURE</b>	<b>REGION/ESTATE</b>	<b>TERRAIN</b>
SANDY LOAM & SANDY CLAY	Tongod, Indah	Undulating
RIVERINE, CLAYSISH, SOGGY, PEAT	Jambongan, Sukau, & Tenegang Group	Undulating



# RECOMMENDED HARVESTER DEPARTMENT OF LABOUR

<b>HARVESTERS TEAM SET UP PER MACHINE</b>	<b>DEPARTMENT OF LABOUR</b>
<ol style="list-style-type: none"><li>1. 6-7 Cutters</li><li>2. 1 loader / attendant</li><li>3. 1 driver</li></ol>	<ol style="list-style-type: none"><li>1. Cutter – Cut bunches, subtending fronds, align bunches and group up the loose fruits</li><li>2. Driver – Load FFB &amp; Operate machine</li><li>3. Loader / attendant – load FFB &amp; loose fruits</li></ol>





# RECOMMENDED HARVESTER DEPARTMENT OF EARNING

DEPARTMENT OF EARNING	HARVESTING RATE RM/mt
1. 63% Cutters	1. Cutter at RM20.00/mt
2. 11.0% Drivers	2. Driver at RM3.50/mt
3. 11.0% Loaders	3. Loader at RM3.50/mt
4. 6% LF Picker	4. LFP at RM2.00/mt
5. 9% VRE	5. VRE Machine at ~RM3.00/mt
	6. Total RM32/mt



# MACHINES COMPARISON

Particular	Mechanical Wheel Barrow	3W	4W BISON	6W
<u>Machine Specification</u> 1. Cost per Unit	RM 8,500.00	RM 19,500.00	RM 53,000.00	RM 50,000
2. Horse Power	5.5 HP	10 HP	12 HP	34 HP
<u>Maintenance Cost</u> 3. Fuel Consumption per day (8 hours)	Petrol : 4 – 5 ltr/day	Diesel : 3 – 4.5 ltr/day	Diesel : 4 – 5 ltr/day	<b>Petrol : 18 – 20 ltr/day</b>
4. VRE per Hour (vehicle running expenses)	RM 3.57 / hour	RM 1.50 / hour	RM 3.50 / hour	RM5.28 / hour
5. Cost per mt of FFB (VRE/mt)	RM 1.12/ mt	RM 2.40 / mt	RM2.30 / mt	RM2.18 / mt
6. Suitability	Recommended for Terrace	<b>Not Recommended for clayish soil</b>	Recommended for all weathered soil	<b>Not Recommended due to high VRE</b>



# CALCULATION WORKING COST/MT

Machine Production (mt)

DAY	MONTH (26 days)	YEAR
20	520	6240

Expenses Involved :

Particular	RM	Cost/mt
1. Machine Cost - Depreciation for 5 years @ 20% per year	53,000.00 10,600	1.67
2. Diesel consumption @RM 2.05/liter ; 5 liter/day ; 130 liter/month ; 1560 liter/year	3198	0.51
3. Legistration – fee (3700 x 2)	7400	1.18
4. Vehicle Running Cost @ 2.30 / mt		2.30
5. Labour @ 4.50 / mt		4.50
		<b>RM10.16</b>



# DATA IN SUMMARY

Fuel Consumption	7-9 litres/day
Cost per mt of FFB	RM2.30mt
Machine : labour ratio	1:8
Machine : land ratio	1:250
Land : Labour ratio	1: 28
Suitability	Recommended for all weathered soil
Articulated chassis and floatation tyres allow better manoeuvrability compared to 3 wheelers	
Machine productivity increase 30% more when implemented correctly.	
Productivity 30MT/day/machine	
Team set up 6-7 Cutters, 1 loader/attendant, 1 driver	



# OUR FACTORY



WORLDEQUIPMENT(CHANGZHOU)CO., LTD

# EXHIBITION





THANKS FOR WATCHING

WORLDEQUIPMENT(CHANGZHOU)CO., LTD



DATE: 2024. 8.28-8.29  
PLACE: KLCC Convention  
Centre, Kuala Lumpur

邀请函

**INVITATION**

WORLD EQUIPMENT (CHANGZHOU) CO., LTD

AT 4&5 HALL

**BOOTH NO.: 114**