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No Warranty On Electrical Motor / Electrical Parts / Battery Etc.

Incidental / Consequential Loss: KisanKraft Limited or its manufacturers will not be liable for general damages, including bodily injuries, or for incidental or consequential damages including, but not limited to, loss of use, loss of profits, loss of production, expense of substitute equipment or other commercial loss or damage.

Limitation of Liability: This limited warranty is in lieu of all other express warranties, obligations, or liabilities. Any implied warranties, obligations or liabilities, including, but not limited to, any implied warranty of merchantability shall be limited in duration to the applicable warranty period. Any action for breach of any warranty hereunder, including, but not limited to, any implied warranty of merchantability must be brought within the applicable warranty period.

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KisanKraft Limited (formerly known as KisanKraft Machine Tools P Ltd)

🌐: www.kisankraft.com ✉: info@kisankraft.com ☎: +91.80.22178200

Product	Maize Harvester	KisanKraft Invoice Date	
Brand	KisanKraft	KisanKraft Invoice No.	
Model	KK-MCH-01D		
WARRANTY PERIOD	6 MONTHS	FOR THE SPECIFIED PERIOD FROM THE DATE OF SALE OR DELIVERY WHICHEVER IS EARLIER.	
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- (1) Operation of product with incorrect fuel or lubricants, (2) Incorrect usage of machine or misuse, (3) Lack of maintenance, (4) Negligence, (5) Accident or physical damage, (6) Repairs made by unauthorized parties and/or with unauthorized parts, (7) Improper set up, adjustments, tampering or altered products

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Wide Range of Products for Every Need



User Manual



KisanKraft Limited

(Formerly known as KisanKraft Machine Tools Pvt Ltd)

Sri Huchhanna Tower, #4, 1st Main, 7-A Cross, Maruthi Layout, Dasarahalli,
HAF Post, Hebbal, Bangalore 560024, Karnataka, INDIA

- ◆ Bangalore (HO) ◆ Ahmedabad ◆ Bhopal ◆ Bhubaneswar ◆
- ◆ Coimbatore ◆ Jammu ◆ Guwahati ◆ Hubli ◆ Hyderabad ◆
- ◆ Jaipur ◆ Karnal ◆ Kolkata ◆ Lucknow ◆ Pune ◆ Raipur ◆

For more information give **MISSED CALL: 07676065555**

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KisanKraft has a large range of products to serve the farmers. A list of our products is given below:

<p>Brush Cutters and Accessories</p> <ul style="list-style-type: none"> Brush Cutter/Power Weeder Backpack Brush Cutter Tea Pruner Pole pruner with Engine Reaper Attachment Blades-Circular Blades (2 & 3 points) Baffle Nylon Rope Tap & Go <p>Chainsaws</p> <ul style="list-style-type: none"> Petrol Chainsaw Electric Chainsaw Chain Sharpening Machine <p>Engines and Water Pumps</p> <ul style="list-style-type: none"> Engine –Diesel-(Horizontal) Engine –Diesel(Vertical) Engine-Kerosene Water Pump with Petrol Engine Water Pump with Kerosene Engine Water Pump with Diesel Engine <p>Hand Tools</p> <ul style="list-style-type: none"> Secateurs Folding Saw Garden Rake Garden Shovel Hedge Shear Lopper Telescopic Hedge Shear Telescopic Lopping Shear Tree Pruner Telescopic Steel Pipe & Fruit Picker Bag Sheep Shear <p>Garden Tools</p> <ul style="list-style-type: none"> Electric Pressure Washer Hedge Trimmer Lawn Mower (Electric, Petrol & Manual) Leaf Blower 	<p>Cultivators and Accessories</p> <ul style="list-style-type: none"> Petrol and Diesel <p>Sprayers and Accessories</p> <ul style="list-style-type: none"> Battery Sprayer Portable Power Sprayer Trolley Sprayer Manual Knapsack Sprayer Manual Pressure Sprayer Rose Cans Hose Crimping Machine HTP Sprayer HTP Delivery Hose HTP Hose Reel HTP Stand HTP Gun / Lance(Brass Rod) Knapsack Power Sprayer Mister / Duster / Granuel Spreader HTP Sprayer Set with Diesel Engine HTP Sprayer Set with Kerosene Engine Fogging Machine <p>Milking Machine</p> <ul style="list-style-type: none"> Wood Shredder Fodder Ensiling Chaff Cutter Fodder Grinder Chaff Cutter Fodder Mini Chaff Cutter <p>Harvester</p> <ul style="list-style-type: none"> Maize Sheller Maize Sheller + Dehusker Maize Combine Harvester Onion Digger Carlotti Italy Tea Leaf Harvester Sugarcane Combine Harvester Sugarcane Leaf Stripper <p>Transplanter and Post Hole Digger</p> <ul style="list-style-type: none"> Paddy Transplanter (2 & 8 Rows) Transplanter-Vegetable & Tobacco Post Hole Digger(4” to 14”Augers)
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No.	Description	Unit	Parameter
5	model	--	KK-DEV-386
	Fuel		Diesel
	Power	kW	5.2kW
	Speed	r/min	3600
6	Quantity of tyres	pcs	4
7	Size of tyres	--	350-6
8	Transmission mode of walking	--	chain
9	Clutch mode	--	Tensioner
10	Rows	--	1
11	Width	cm	42
12	Line width	cm	≥10
13	Work efficiency	Hm ² /h	0.1
14	Recovery ratio	%	≥97
15	Loss ratio	%	≤1
16	Quantity of blades	pcs	2*5
17	MTBF	h	50
18	Environmental noise	dB	≤83
19	Location noise of driver	dB	≤97

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Problem	Reason	Solution	Remark
Exhaust gas in black	Overload	Lower the gear to low speed	
	Air filter blocked	Clean or change filter element	
	Insufficient fuel	Inspect the supply system of fuel	
Exhaust gas in blue	There is excess engine oil in cylinder	Inspect the level of oil, and release the excess oil	
	Gap between piston and cylinder is big	Repair to replace the piston ring	
	Incorrect gap of piston ring	Repair to correct the piston ring gap	
	Over wearing of valve or valve shaft guide	Repair to replace the valve or valve shaft guide.	
Oil leakage from gearbox or crankshaft box	Seal failure	Replace the seal	There are many models of seal, you should point out model or location used whenever necessary.
	Over wear of seal	Replace the seal	
	Screw loose	Tighten the screw	
	Mini holes in engine body	Repair by welding or sealing by anti-oil glue	

Technical Specification

No.	Description	Unit	Parameter
1	Model	--	KK-MCH-01D
2	Structure	--	4 wheels, Self-walking
3	Dimension	mm	1820*800*1190
4	Net weight	kg	162

- c) Then drain the engine oil while it still warm, then refill new machine oil, running in for 4 hours, so you can operate the machine regularly.

4. Engine. Maintenance

- a) The main contents of daily inspection and maintenance: screw bolts, oil leakage, and clean dirt, solve the troubleshooting.
- b) Clean fuel filter every half a year or every 500 hours, take out and clean the fuel filter. Remove the leakage screw under the oil tank, release all the fuel and impurities.
- c) Clean the machine oil filter element, take out and clean the machine oil filter every 250 hours, replace after it is dry.
- d) Replace engine oil: Replace with new engine oil after 20 hours for the first time, thereafter replace once in every 100 hours
- e) Replace or clean air filter element.
- f) If the filter element was blocked or damaged, the air going to engine will be reduced. The combustion of the engine will be bad. It will cause lack of power and the exhaust gas in black, and engine is difficult to start. So the filter element should be cleaned often.
- g) The filter element of dry type air filter should be blown or brushed to remove the dirt, you should replace with new one if invalid.
- h) Oil filter has sponge inside, you can remove the sponge, and wash it with detergent, then replace it back.

5. Maintenance of the Harvester Assembly.

- a) Inspect the belts and clutch frequently, solve in time if loose or other problems.
- b) Inspect screw bolts, ensure they are joined tightly.
- c) Inspect welding area, to find if there are somewhere broken, if found so, solve without delay.
- d) Clean the dust, grass, to keep the belt running smoothly.

Troubleshooting

Problem	Reason	Solution	Remark
The engine does not start	Lack of fuel in fuel tank	Refill fuel	If there is less fuel in tank, the engine cannot start sometimes. Or even if started, it will stop automatically soon
	Fuel switch off	Open switch	
	Insufficient Accelerator	Turn the accelerator to about 1/3	
	Insufficient strength while handle start	Pull the handle quickly and strongly.	
	Machine oil too thick because of cold weather	Heat the oil	
	Fuel difficult to burn because of cold weather	Heat the cylinder head	

Before Getting Started

Thank you for your purchase and use of our product In order to avoid accidents or injury, **please read this manual carefully** before using the machine. Also this manual provides information on installation, operation and maintenance. After reading, preserve it for further reference.

This manual has contents related to construction, operation, repair, maintenance, safety, optimum performance of this maize harvester. Please be sure to read the manual carefully before operating, confirm you have gained enough knowledge of safe operation and maintenance. Please note that as a part of continuous improvement, the product may undergo slight modifications

Safety Precautions



Warning:

- Please be sure to read the manual carefully before operating, understand the safety operating methods, especially the handling methods during emergency. It is more important than the regular operation.
- Do not operate the machine without enough training. Children/ minors are forbidden to operate.
- Do not operate while after consuming alcohol, while having fatigue or in bad mood.
- Do not operate the machine in insufficient light.
- Before starting the engine, ensure it is in neutral gear and the clutch at the separating position.
- Separate the clutch before changing the gear position. Lower the speed of engine.
- Pay more attention while working on the slope field to avoid risk of falling down.
- Bystanders should keep safety distance during operation
- If you want to clear the mud or grass on machine or on the blades or any assistance is required, ensure to separate clutch and turn off engine first.
- Fuel is highly flammable, so keep them away from fire. Turn off the engine, allow it to cool before adding fuel to oil tank.
- Do not run the machine in less ventilated place occasion, in order to avoid CO poisoning.
- Keep away from rotating and hot parts.

Working principle & Application

The maize harvester has an engine with the power that drives walking tyres to walk through gearbox, the power is also transmitted to another gearbox, which in turn drives two iron harvesting wheels and blades below. While the machine is moving forward, the stem of the corn plant is pulled inside by two rotating iron wheels, but the corn cob cannot pass because of thickness, so it is cut down and made to fall into case. Thus the stem is cut into pieces by blades.

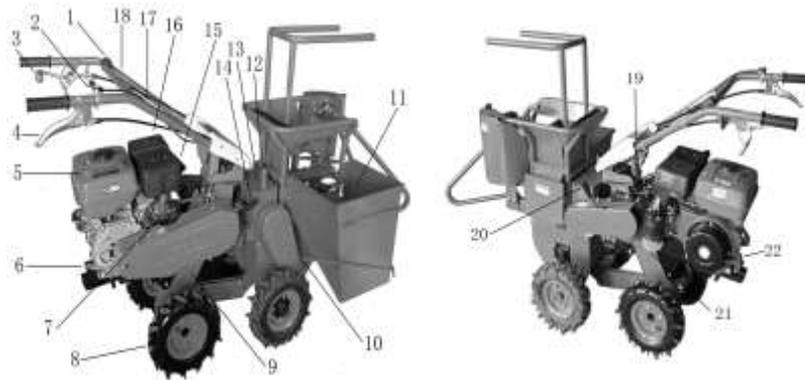
Suitable for the corn planted in the hilly land.

The machine can be divided into two parts, when the part with another gearbox is removed, the remaining part can be used as a tiller.

Features

1. Light and flexible: Occupies less space, is light in weight, do not require much professional knowledge and training, So can be easily operated.
2. Multifunction: corncob is collected separately and stem is cut into pieces and returned to the field.
3. Well-suited for hilly land where the road is not good enough, or the land is small.
4. Price, fuel consumption and operating cost is very low
5. Can be used as an independent tiller, like for rotary tillage, deep tillage, ridging, etc.
6. High-efficiency.

Product Structure



Note: The above picture is only for reference

- | | |
|--------------------------------------|----------------------------------------|
| 1. Switch off button, | 12. Oil filler of harvesting gearbox |
| 2. Accelerator | 13. Harvesting gearbox |
| 3. Walking clutch | 14. Shift level for high and low speed |
| 4. Grip for height adjustment | 15. Silencer |
| 5. Fuel tank | 16. Air filter |
| 6. Oil level gauge of engine | 17. Grip for L&R adjustment |
| 7. Shift level for Fwd I, II and Rwd | 18. Armrest shelf |
| 8. Tire | 19. Oil filler of walking gearbox |
| 9. Walking gearbox | 20. Clutch for harvesting |
| 10. Joystick for hopper | 21. Oil cup of air filter |
| 11. Hopper | 22. Hand starter |

- Due to the running and friction and the instability of load, some problems are inevitable such as screw bolts loose, the parts wear and tear which may lead to machine abnormal function, reduction in engine power, increase in fuel consumption, etc.
- To reduce the above problems and prolong machine service life, it is strictly necessary to, to do a good maintenance on a regular basis and keep it in good technical condition.

1 Technical Maintenance

- 1.1 Shift maintenance. (Before working and after working)
 - a) Inspect for oil leakage of the engine, gear boxes, etc.
 - b) Inspect if the volume of machine oil is sufficient.
 - c) Clean the mud, grass, oil contamination etc.
 - d) Listen and observe all over the machine for irregular sound, over heat, screw bolts loose.
 - e) Record the work.
- 1.2 Class I maintenance (every 150 hours)
 - a) Carry on all the works mentioned in 1.1
 - b) Clean crankcase of engine, gearboxes and change the engine oil.
 - c) Inspect and adjust clutches, shift level system, transmission system.
- 1.3 Class II maintenance (every 800 hours)
 - a) Carry on all the works mentioned in 1.2
 - b) Inspect all the gears and bearings, replace the worn out parts by new one.
 - c) Check all other items such as blades and screw bolts, replace the damaged by new ones.
- 1.4 Technical Inspection (every 1500-2000 hours)
 - a) Separate the complete machine, clean and inspect, replace the worn out parts by authorized person
 - b) Inspect and adjust friction plate and clutch by authorized person.

2. Long Term Storage.

If the machine has to be stored for a long time, in order to keep it in good condition, the following measures should be taken.

- a) Clean the surface of the machine neatly
- b) Drain the engine oil from gear box then refill with new oil.
- c) Coat anti-rust oil on the surface of the easy rust places.
- d) Store the machine at a dry, well-ventilated, safe place.

3. Running-in

- a) If you have just bought a new machine or the machine after a repair, then the machine should be running in.
- b) The machine should work for half an hour without load, then work for 5 hours with light load.

3.3 Maize harvesting

There is a special clutch for maize harvesting, called harvesting clutch, as shown in fig. Separate the clutch, to stop harvesting, but the machine can move forward or backward. Only when the clutch is pushed to joint, the harvesting will take place.

Warning: To join or separate the harvesting clutch, you have to separate walking clutch first.

3.4 Discharge the corn cob.

If the hopper is full of corn cobs, you should discharge them, pull the handle to open as shown in the picture (right)

Warning: Before discharging, the walking clutch should be separated to stop walking of the machine.



3.5 Change direction

If you have finished a row, need to turn around or need to change direction because of other reasons, but if it is very difficult when all the 4 wheels are on surface, then you should lift the two wheels near to driver, above the ground, to change the direction easily.

4 Shut down

- 3.1 Separate the walking clutch
- 3.2 Turn the accelerator clockwise to the end, minimize the speed of engine
- 3.3 Press switch off button to "OFF".

Warning: Press switch off button to "OFF" directly under the state of emergency. Otherwise you should follow the above mentioned procedure, i.e., not to shut down suddenly while working in high speeds in order to avoid any hurt or damage.

Maintenance & Service

Warning: Shut down the engine before any maintenance. In order to prevent the engine from being started accidentally, the engine accelerator should be put in the minimum position and for the electric start models, you should remove the start key.

- The machine should be serviced by authorized dealer unless the user has the proper tools, maintenance information and maintenance ability.
- Use original parts or their equivalent products, as poor quality substitutes can damage the machine.
- Inspect the screw bolts, parts of joint, ensure they are fastened tightly
- In order to maintain excellent performance, the machine must be inspected and adjusted regularly. The routine maintenance also guarantees the long service life.

Inspection & Adjustment

The machine has been adjusted and calibrated strictly before leaving the factory. However, it is necessary to check and adjust various parts before the first operation or anytime if necessary.

1. Daily inspection

Warning:

Before operating, you must fill machine oil into engine oil cup of air filter, gear box of walking case, gearbox of the harvester. Please note that oil is not filled while leaving factory. Following this, the operator should check machine oil often. While working if machine oil is found insufficient or if it is not clean, then refill/ change it immediately, else the machine will be seriously damaged.

1.1 Inspect engine oil in engine, the regular volume is 0.7L.

- Keep the machine on a flat surface.
- Move the oil level gauge, clean it.
- Put back it into hole again, do not turn.
- Move it out again, check the oil level, the normal position is at the middle of mark. As shown in the right picture.



1.2 Inspect the engine oil in air filter, if there is no suitable volume of engine oil in the oil type air filter, it will damage the engine.

The regular level is near the mark of "oil level".



1.3 Inspect the engine oil in gearbox of walking case, the regular volume is 1.8L. Procedure is same as mentioned above in 1.1: fill engine oil in engine.

1.4 Inspect the engine oil in gearbox of harvesting, the regular volume is 2.2L.

- You can remove the cover, turn tightly after filled. Note: there is no gauge here, just fill the volume as required.
- Inspect the control part such as control knobs, clutches, shift level, etc. Ensure they all are working reliably
- Inspect screw bolts, parts of joint, ensure they all are fastened tightly.

Operation

1 Starting the Engine

⚠ Before starting the engine, ensure to put gear box to neutral gear and the clutch at the separating position.

- 1.1 Refuel diesel into oil tank,
- 1.2 Right turn the fuel switch to "open"
- 1.3 Left turn the choke valve to "start"



- 1.4 Turn the handle of accelerator to about 1/3



- 1.5 Press the switch off button to "ON"



- 1.6 By pulling out the recoil starter about 10cm, until it become tight, then pull quickly by force, then can you start the engine.

⚠ Warning: If pull out the recoil directly by force without pulling out 10cm lightly, the starter will be damaged. If you loosen the handle suddenly after pulling out, the handle will go back to starter quickly, the starter will be damaged. So you should grip the handle until it is completely back slowly.



- 1.7 After the engine is started, wait for few second still the engine runs smoothly, then turn the choke valve to "RUN" slowly.

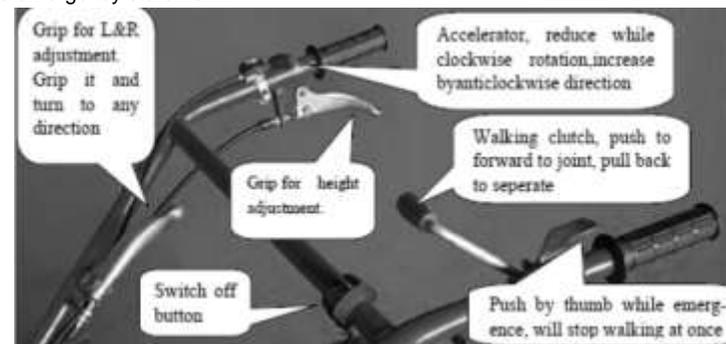
⚠ Warning: If the choke valve is not turned to "RUN" completely, the engine will be damaged in few minutes.

3 Walking and Working

2.1 After the engine is started, the machine can walk or work. Before this, adjust the angle and height of the handle as per your convenience. The following picture shows the controlling position.

⚠ Adjust the engine in low speed before joint the walking clutch, to avoid any injury caused by sudden and fast moving of the machine.

Note: There is a button near walking clutch handle, you can press to stop walking at once while emergency statement.



- 3.2 There are 2 shift levels, the above used for control reward, forward I, forward II, the below one is used to control high and low speeds.

Note: What calls for special attention is that, the shift level used for forward and backward, is under the statement of tiller. But for the corn harvester, it is opposite. That means, only by putting the shift level to backward, we can harvest maize.

⚠ The walking clutch should be separate before change shift level.



⚠ Warning: Do not overexert while changing the shift level to avoid contact of your hand with hot silencer.