MEALIE BRAND
MBLI HAND PLANTER

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MBLI HAND PLANTER

1) PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>NO</th>
<th>ITEM</th>
<th>UNIT</th>
<th>SPEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Size (L x W x H)</td>
<td>mm</td>
<td>20 x 80 x 200 mm</td>
</tr>
<tr>
<td>2.</td>
<td>Weight</td>
<td>kg</td>
<td>2.2kg</td>
</tr>
<tr>
<td>3.</td>
<td>Seeding Volume</td>
<td>Grain per hole</td>
<td>1-4 adjustable</td>
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<tr>
<td>4.</td>
<td>1MU (3000 Holes) Fertilization Volume</td>
<td>kg</td>
<td>10-30kg adjustable</td>
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<tr>
<td>5.</td>
<td>Fertilizer Distance From Seed</td>
<td>mm</td>
<td>34mm</td>
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<tr>
<td>6.</td>
<td>Efficiency</td>
<td>1MU (3000 holes/ per day/per person (approximately))</td>
<td>3000-5000 holes per day</td>
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2) APPLICATIONS (RANGE AND FEATURES)

a) Suitable for maize, beans, all similar sized seed, selected vegetable and other small grain seed.

b) Suitable fields: Especially suitable for small areas, slopes tilled and non tilled land.

c) Features:
   i) The range of seeds supplied with the planter allows the user to choose whether to plant single or multi grain.
   ii) Visual checking: you can notice empty holes in time.
   iii) Fertilization volume is adjustable, seeding and fertilization are separated.
3) STRUCTURE-ILLUSTRATION (MAIN PARTS)

1. Fertilizer Pouch
2. Fertilizer Tube
3. Seeding Tongue
4. Return Spring
5. W. Spring
6. Fertilizer Adjustment Gate
7. Seeding Checking Window
8. Fertilization Gate Opening Lever
9. Pendulum
10. Fertilizing Slot
11. Planting Tyne
12. Seeding Slot
13. Depth Fixing Plate
14. Seeding Wheel
15. Seed Knocker
16. Seeder
17. Seed Hopper Tube Handle
4) INSTRUCTION FOR USE

a. Theory
When planting: the digging action causes, the planting tyne to penetrate the soil and stop due to the resistance of the soil. As a result of the inertia, the pendulum rotates the seeding wheel, shooting the seed into the soil and also activates the fertilizer gate opening lever, allowing the fertilizer to run into the soil. Therefore through one digging action, seeding and fertilizing are done simultaneously. It is easy to check the process as you go.

b. Usage
Put seeds in the seed hopper tube and load the fertilizer into the fertilizer pouch. Carry the fertilizer pouch on your back.

Operation Procedure:

i) Ensure that the seeder fitted is suitable for the seed and quantity you intend to plant. (see point 4C on adjusting seed quantity and point 8 on instructions for removal and fitting.)

ii) Lift the planting tyne up about half a meter (recommended height). Dig and pull back the planting tyne so that the fertilizer and the seed fall into the hole that you have dug, (digging, seeding, fertilizing 3-in-1).

iii) When the planting tyne is lifted again, seeds and fertilizer will be naturally covered by the soil.

iv) The operator moves forward and applies pressure with his foot.
v) After a cycle, you will have finished digging, seeding, fertilizing, covering with soil and pressurizing.

c. Adjusting Seeding Quantity
According to the size of the seeds and the requirements of seeding, there are 12 seeders for seeding choices. The seeders are numbered from 1-12. The round ones are for single grain and the elongated ones are for multi-grain.

d. Adjust Fertilizing Quantity
Move the fertilizer adjustment gate forward or back to increase or decrease fertilizer quantity.
Note: make sure the quantity is correct before operation.

e. Adjustment for the Depth Fixing Plate
There are 2 pieces for the depth adjustment plate. They are fixed by screws on each side. There are 2 depth choices. It’s used for cultivated land. It can be removed for the none-tillage land. The depth of seeding is dependant on the seed type, too shallow or deep is not good for seed emergence.

NB: See page 8 for instructions on how to remove and insert seeder.
5) TROUBLE SHOOTING AND OPERATING ESSENTIALS

Why are the seeds and fertilizer lying outside?

- Didn’t pull back so they stay outside

- Pull back 2cm

- When digging pull back, the seeds and fertilizer will naturally fall into the soil when pulling up keep straight.

a. To prevent the soil blocking the seeding or fertilizing slot, you need to pull back 2cm when you dig (digging and pulling back need to be done at the same time). You need to pull the planting tyne straight up (can’t pick up in the opposite direction of digging in, it will cause pulling out the seeds and fertilizer).

b. No seeds in the seeding window – how to fix that: Lift the planting tyne and pull the pendulum up, then push it down to the stop until the seeds are visible.
6) PENDULUM RETURN SPRING INSTALLATION
PROCEDURE

1. Bring spring legs together
2. Spring legs must cross each other
3. Place on pendulum axis
4. Push hard and turn the spring 90° anti-clockwise
5. Put the spring on the spring wheel

7) MAINTENANCE

a. It is recommended that after 2 hours of use you put 1-2 drops of lubricating oil on the pendulum axis shaft.

b. The storage for the seeds and fertilizer should be kept dry and the surface of the seeding slots should be kept clean.

Note: don’t use controlled released fertilizer – it burns the seeds.
8) INSTRUCTIONS ON THE REMOVAL AND INSERTION OF SEEDER

a) Removal: Move the pendulum up to the stop position. From the back of the housing use a tool to push the seeder out of the housing. **Note:** Do not release the pendulum until the removal is complete.

b) Insertion: Move the pendulum up to the stop position. Put the seeder into the seeding wheel without releasing the pendulum. **Note:** Before seeding, please make sure the seed size and volume is correct for seeder fitted.

Testimonial

Dear All
Just wanted to say that we have already tested the MBLI hand planter and are really impressed. It is critical to use it correctly and not use it with a hoe action. It is rather a gentle pulling back action. Our germination was really good and bigger fields will be planted this year in Lesotho with it.

We even have commercial farmers buying a bunch of these things in order to establish no till before investing in expensive equipment. 20 of these planters will move across a field like no tractor planter can do. This is something that can really help no-till in Africa. So do not be scared to try this.

Greetings

Growing Nations