

SEED SOWING DEVICE

Appling

This seed sowing device is suitable for sowing crops that require to thin plants such as spinach, radish, carrot, Chinese cabbage, cabbage and sunflower for ornamental cut flowers, etc. It dispenses seeds via a seeding disc. In addition to regular seeding discs with dispensing holes, there are spare seeding discs without dispensing hole for self-processing to suit a variety of seed sizes and spacing. Due to the straight line sowing, the row spacing is regular, which is conducive to field management operations such as fertilization and weeding.

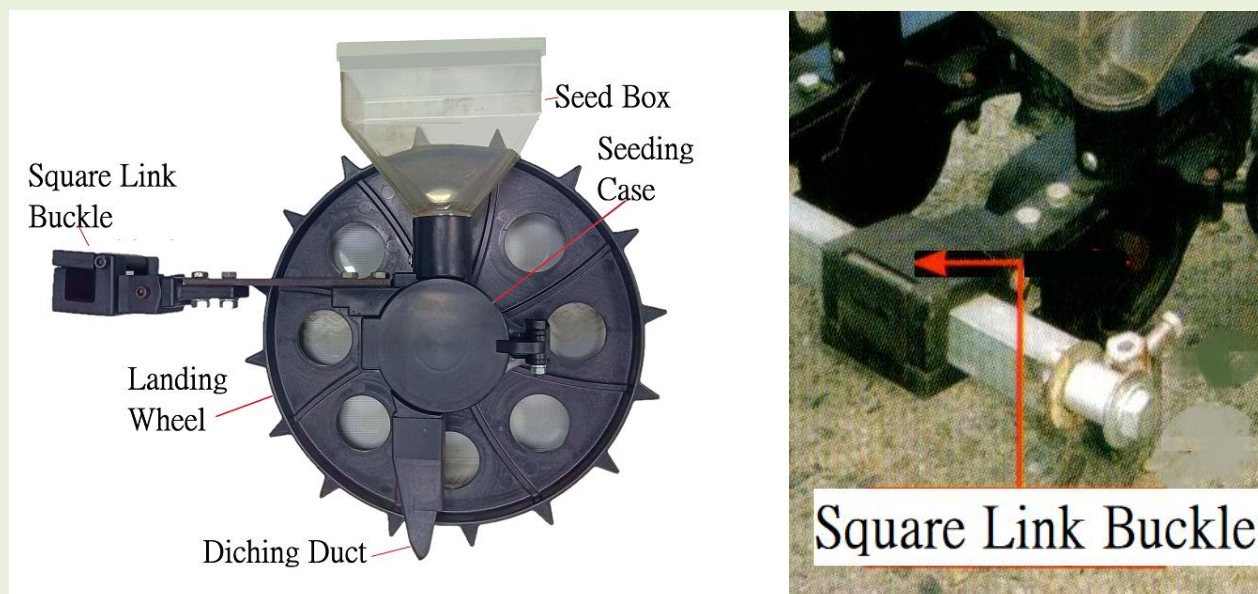
Characteristic

1. There is a convenient square link buckle in front of the device for easy attachment to tractors, cultivators or manual propulsion equipment.
2. Easy to add or reduce seeding rows. Quickly assemble and disassemble.
3. Lightweight for easy working, improve work efficiency.
4. Eliminate the parts of not necessary, concise structure of device make cost reasonable.
5. Save seeding work and reduce seed costs. Reduce the thinning operation.
6. It is very easy to operate with this device and can be operated without special training.

Structure of seed sowing device

The seed sowing device is mainly constructed with a square link buckle portion, a seeding and landing wheel portion, and a seed drop portion.

1. The square link buckle is in front of the seed sowing device. It is used to be locked to a square connecting rod. The square connecting rod is connected and fixed to the pulling equipment, such as tractors, cultivators or even manpower device.



2. The seeding and landing wheel portion includes a seed box, a seeding case, a seeding disc, a barrier brush and a landing wheel.

a. The seed box is placed above the seed sowing device to load the seeds. It includes two parts: the seed box body and the lid.

b. The seeding case is under the seed box, includes the seeding case body and the cover. To be used to place a seeding wheel.

c. The seeding disc is located in the center of the seeding case. At outer edge has some concave seed dispensing holes. There are three seeding discs with regular holes for radish, leeks and spinach. In addition, we have spare seeding disc without seed dispensing hole. This spare seeding disc is for self-processing concave holes to meet the needs of various vegetable seeds. Seeding disc is changeable for different sizes of seeds with different drop distance.

d. The barrier brush is located at the upper going edge of the seeding case to remove excess seeds.

e. The center of the seeding case has a drive shaft that runs through the seeding case. A section of shaft out of seeding case is used to install an engineering plastic landing wheel.

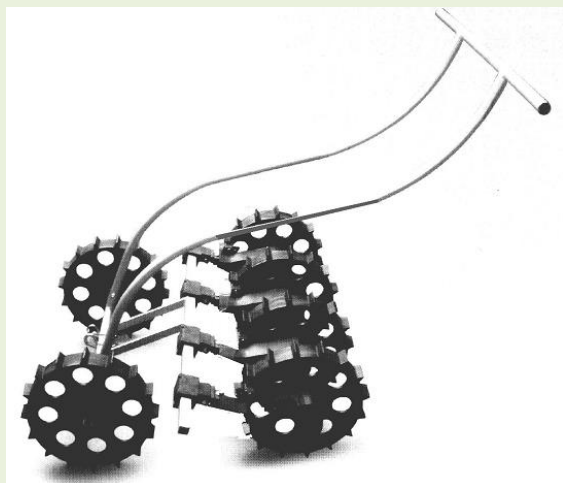
3. The seed drop portion contains a ditching duct and a soil covering plate. The ditching duct can be adjusted according to the depth of seeding. The soil covering plate is used to cover the soil on the seeds that fall on the ground.

How the seed sowing device working

The seed sowing device pulled by power, then the landing wheel turn forward. Seeds are down from the seed box, to the seeding disc with certain volume in certain distance, finally the seeds down into the soil via a ditch duct below. The delivery of the seeds utilizes its own weight.

When falling into the seed dispensing hole of the seeding disc, the seeding wheel is turned forward in a counterclockwise direction. The inside of the seeding case has a concave guide groove above the outer edge. The seeds to be broadcast will enter here. Before entering, due to the blocking of the going edge brush, the extra seeds in the seeding disc hole will be blocked. The seed dispensing holes set the distance and volume to drop the seeds.

The rotation of the seeding disc is driven by the coaxial landing wheel. When in contact with the soil, landing wheel drives the drive shaft and rotates the seed disc. The seeds are introduced into the ditching duct and then fall into the ditch, which is then covered with soil. In this way, ditching, sowing, and covering soil have been completed the same time.



Device operation

1. The soil in the sowing block should be loosed first. After deciding to plant the types of vegetables, select the seeding disc depend on the volume and distance of dispensing holes. After selecting the appropriate seeding disc, open the cover of seeding case and place the appropriate seeding disc in the seeding case. Then adjust the gap between brush and seeding disc, and adjust the sowing depth of ditching duct.
2. Place the seeds in the seed box.
3. For seeding seeds, if you need to cover the soil, the ditching duct and soil covering plate below the seeding case must be installed. You can adjust the ditching duct and soil covering plate as the depth needed. If the seeds do not need to be covered, the ditching duct and soil covering plate can be removed.
4. Before start the seeding operation, rotate the landing wheel goes forward for a half turn firstly. After the seed is dropped to the ditching duct, the seeding operation can be started. In this way, the initial 30 cm missing can be avoided.
5. During operation, pay attention to whether the landing wheel rotates normally to avoid the Intermittent seeding.



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