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Operators Manual

4m Multiseed Revegetation Seeder



The **Kimseed 4m Multiseeder** is effective in metering out seed mixes both native and new plant species into the denuded areas. It can be towed across pre tilled land if required. This process allows germination of native and other plants to occur side by side greatly improving the revegetation process.

The 4m Multiseeder drum has 8 compartments allowing vastly different seed sizes and weights to be sprinkled, at different rates, over either, freshly tilled soil or on harrowed loose or sandy soil.

A vermiculite filler can be used for metering

Features:

- Can be operated on slopes of up to 10 degrees.
- **Multiseeder drum** with compartments for handling bulky or mixed density seeds, fertilisers, manures and mulch. (only ½ fill for best results)
- **Optional** spring harrows for seed covering.
- **Optional** rabbit baiting discs .
- **Optional** wind cover & skirt

Working Dimensions:

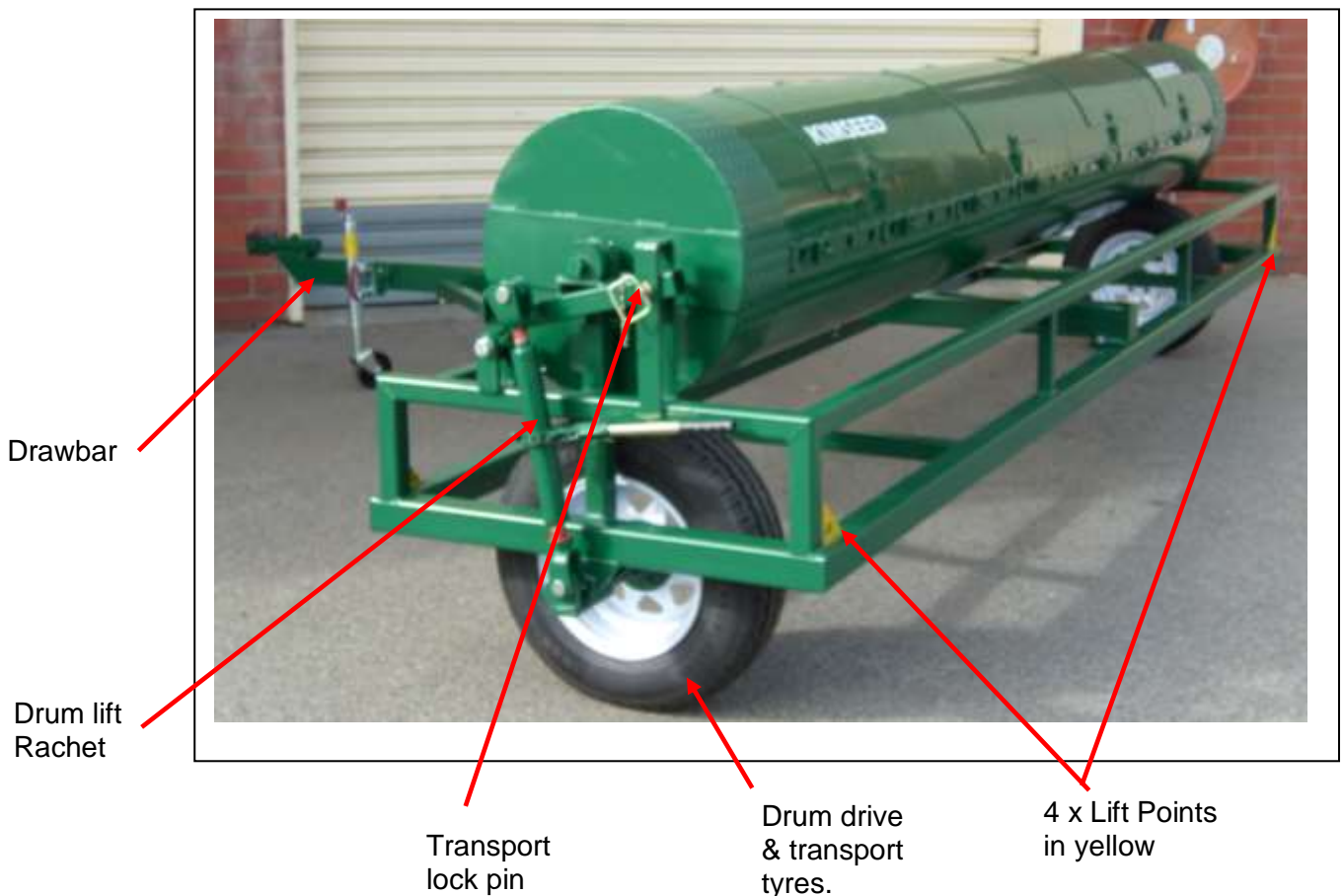
(L) 5000 x (W)4850 x (H) 1400 mm



Specifications

- Equipment: 4m Multiseeder trailed by drawbar
- Power Requirement Minimum 20 HP
- Transport Width 5000 mm
- Working Width 5000 mm
- Seeding Width up to 4000 mm
- Seed Capacity 50% of Cyl.500 L
- Speed of rotation of drum 50-60 rpm
- Operating Ground Speed up to 6 – 7 km/h
- Tyres: 185 x 14 Light Truck
- Spring Harrow width 4000 mm optional
- Rabbit bait Disc 13" optional

Drum lift cam Multiseeder Seed drum



Australian Native
Seed Specialists

Seed & Revegetation
Equipment

Engineering Design
& Fabrication

Forestry
Management

International Environmental
Consultants

Celebrating 40 years of sustainable land management



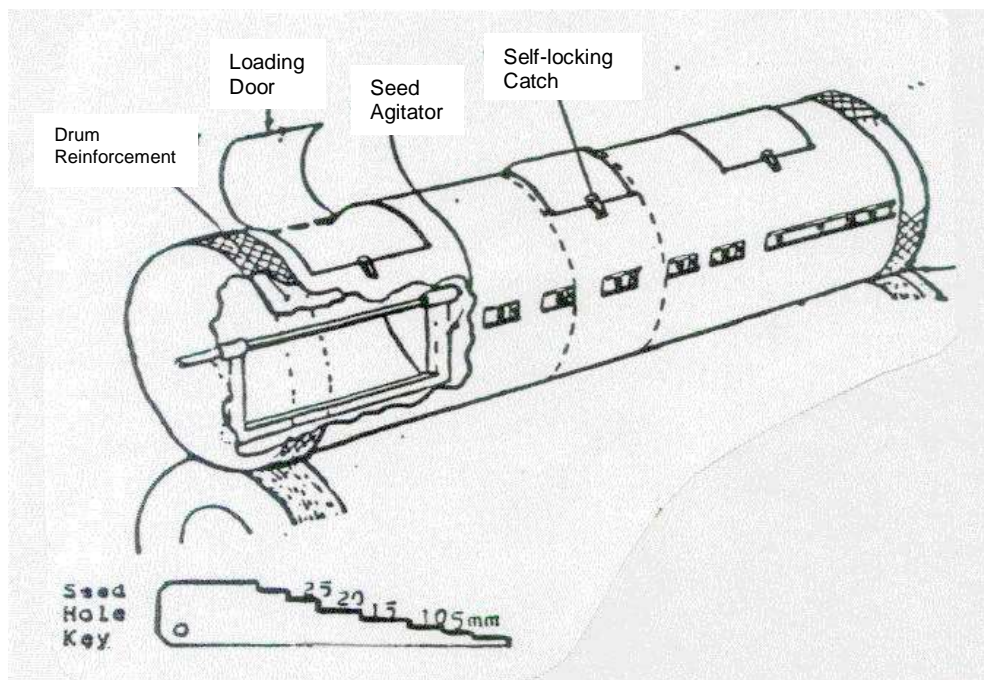
The **Multiseeder** with many compartments is used to introduce new plant species and varieties.

Multiseeder Seeding Cylinder

The Kimseed Multiseeder is designed to maintain a mix and meter out all types of seeds and is especially suited to lightweight fluffy seeds. These seeds will not flow through conventional seeders.

The Multiseeder can also meter out semi-cleaned seed, which contains small sticks, stones and trash.

When operating, the Multiseeder rotates causing a rolling action on the seed inside. An agitator bar stirs the seed and forces it out through the two rows of hole openings (apertures) along the cylinder. Optimum speed is approx. 50-60 rpm.



Different types of seed as well as fertiliser may be mixing in the cylinder at the same time. Even Trashy seed samples can still be metered out by the Multiseeder. **A seed hole KEY** with 5mm graduations is used to ensure all of the holes can be easily set at the same opening. If very small seeds are to be sown without fertiliser then the seed should be mixed with a carrier such as vermiculite No. 4 or dry sand to give a more even seeding rate.

To ensure you get the best from your Kimseed Multiseeder please read the appropriate maintenance and shutdown procedures that need to be undertaken. (See Shutdown section)

Set-Up Instructions



Compartment Door



Drum key to set outlets evenly.



Use Drum Key to lock outlet setting

Calibrate Multiseeder outlets to suit the seed mix in each compartment.

Setting Multiseeder seeding rate.

1/ Check that the machine is out of the wind.

2/ With the seeder drawbar hitched up to the towing vehicle, jack up the seeder wheels so that the wheels can turn freely by hand.

3/ Lower the drum down onto the wheels using the drum lift lever so that the drum lift cam is free to turn.

4/ Open the wind cover if fitted and check that the compartment doors are to the top ready for filling and the seed outlet rows are horizontally opposed.

5/ Set up a ground sheet under the seeder to catch falling seed so that it can be weighed.

6/ Add 2 Kg of seed mix to one compartment only.
Note: 2 compartments under each door.

7/ Close and lock the door.

8/ Open both slide plates on that compartment so that the outlet holes are approx. 3 x the diameter of the largest seed and tighten the clamping screw.

9/ Hand operate the Multiseeder at 60 rpm (1 rev per sec.) for one minute and measure the seed collected onto ground sheet from the compartment.

Output Sowing Rate Formula of a compartment of seed mix.

$\text{Kg per ha} = 1 \text{ compartment (500mm) Seed Weight kg} \times 22$

(For estimation for initial setup seeding rate.)

NOTE : ALWAYS STOP MULTISEEDER WITH DOORS UP & HOLES HORIZONTALLY OPPOSED (Drum indicator pointing upwards)

Spring Harrows (Optional)

Lowering the Spring Harrows

1/ Stand at the centre rear of the Multiseeder and remove the lock up pins and place in the keepers until you have completely lowered the harrows onto its spring tines.

2 / Holding the top harrows pipe, slowly lower the harrows assembly to the horizontal position and rotate the tines until they are all vertical to the ground. Continue lowering until the harrows sits on the ground supported by the vertical spring tines.

3/ Replace the locking pins into the Transport brackets whilst the Multiseeder is in operation. Do not leave in the keepers.

4/ Harrows are now ready for operation.

CAUTION:
NOT DO NOT REVERSE
MULTISEEDER WITH HARROWS
DOWN

5/ Raising the Harrows into the transport position is the opposite to above 1 -4



Pin in Keeper while lowering and raising Harrows



Spring harrows with tines vertical



Pin in Transport Brackets when machine is operating with harrows down.



Machine Care Procedures

Shut Down

At the end of the seeding season the machine must be parked in a covered shed if possible.

Seeding Cylinder

When parking ensure to have seeding cylinder doors facing down and open to allow any seeds fall down and moisture to drain. Do not leave any fertilizer in the cylinder as this will severely corrode the compartment walls.

Cleaning

Maintain the Seeder by washing clean with a soft brush and mild detergent to avoid damage to paintwork.

Lubrication

Prior to storage grease all bearings.

Maintenance

Daily:

Check that nuts and bolts, and bearing grub screws are tight .

Lubrication: No Daily lubrication required.

Weekly:

Check Rabbit Baiting discs for wear.

Lubrication: Grease disc and seeding drum mounting bearings with a good EP grease

Rabbit Baiting Discs Set Up (Optional)

Rabbit Bait Laying Disc Attachment:

1/ Bolt the disc Assembly so that the clamp is between the marks on the front frame bar.

2/ The disc should be facing towards the centre of the seeder. Leave the discs up and drive to the baiting area site.

3/ To lower the disc, use the drum lift extension to lever against the spring so that the transport bolt can be removed and place into the keeper tube as shown.

4/ Lower each disc to the ground.

5/ If wind skirt is fitted you will have to flip it up in front of the front bar so that it does not inhibit proper fall of the seed bait.

6/ Drive the Multiseeder slowly forward 1.8 metres and check the disc penetration is correct for the type of soil.

7/ Adjust the depth by screwing and locking the depth screw.

8/ Only open the outlets in the multiseeder drum which directly above each disc.



Left Side Rabbit Bait Disc Assembly



Drum lift lever

