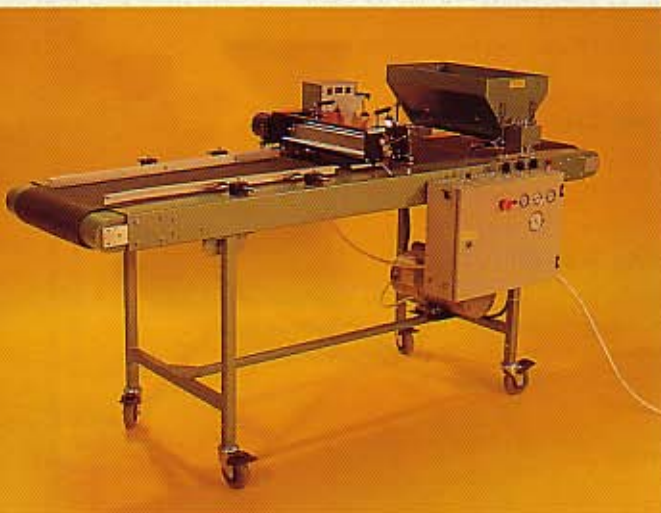


THE HAMILTON

DRUM SEEDER



A compact, high-production machine, designed for the grower who needs a high continuous output with minimum down-time

How it works

The drum has galleries along its length which connect the pick-up holes (via a rotary valve) to a vacuum for seed pick-up, low pressure air for release, and a high pressure cleaning blast, in sequence, as the drum revolves.

The seed is fed via a hopper into the valley between the drum and rear roller, which rotate in opposite directions. This agitates the seeds and makes them flow along the valley to the pick-up position.

Vacuum is applied to the holes, which picks up the seeds and carries them under two air curtains to remove multiple pick-ups. The seeds are then carried round to the discharge position where the vacuum is replaced by low pressure air to discharge the seeds accurately into the tray. Immediately after discharge, the holes are cleaned by a high pressure air blast before returning to the pick-up position, when the cycle repeats.

The drum is driven by a hybrid stepper motor, linked electronically to a speed pick-up on the conveyor. As the tray passes under the seeder it breaks an infra-red beam, which starts the drum rotating in perfect timing with the conveyor belt.

Features

Speed

Typical sowing rates for a 392 cell plug tray would be around 700 trays per hour, or 280,000 seeds per hour. This is about 5½ rows per second. A similar rate would apply to vegetable plug trays. Direct sowing into bedding plant packs is also possible at much higher rates. In practice, it has been found that high production rates are limited more by the speed that the trays can be fed onto and removed from the seeder, rather than the speed of the seeder itself. Variable speed is a standard feature.

Versatility

One of the major advantages of the Hamilton Drum Seeder is that it will sow into virtually any plug tray, seed flat or bedding plant container on the market today. Changing the drum and making adjustments for the tray is remarkably quick and easy.

Drums

Duplex drums can be manufactured to single, double or multi-sow in one pass of the tray. The standard 0.3mm hole size will sow a wide range of flower seeds from lobelia up to salvia. 0.5mm holes are required for heavier seed such as brassicas. Each drum can be drilled with two different hole sizes, or two different tray patterns. Even the unusual hex-trays can be accommodated.

Standard Equipment

The Drum Seeder is supplied ready mounted on a two metre belt conveyor with one drum of your choice, a vacuum pump unit, seed vacuum cleaner, variable speed, tools, and all the parts to get you started. Great care has been taken in the selection of materials to ensure long life and minimum maintenance. Anodised aluminium is used extensively on the conveyor and seeder to give a mobile, lightweight and corrosion resistant unit.

Power Requirements

A domestic single phase electrical supply is required. Machines can be built for either 220-240 volt or 110-120 volt operation. A compressor with an output of 4 cfm (100 l/min) at 60 psi (4 bar) is also required.

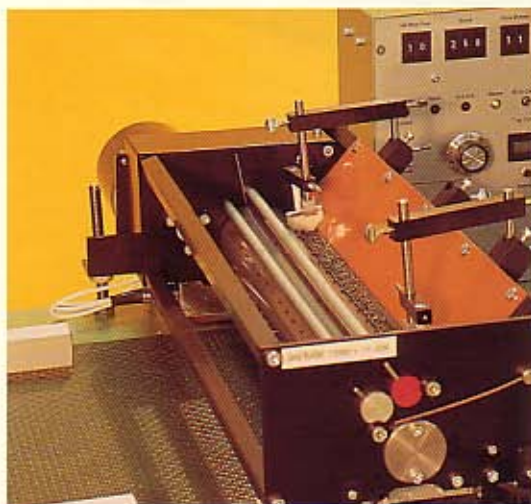
HAMILTON DESIGN LTD

Nethercliff, Green Lane, Littlewick Green
Maidenhead, Berks SL6 3RH, England

Telephone: 01628-826747 Facsimile: 01628-822284

Email: info@hamilton-design.co.uk

Web: www.hamilton-design.co.uk



Accessories

Vermiculite Coverer

This unit provides a quick and accurate method of covering the seeds with vermiculite after sowing. A motorised roller feeds vermiculite through a gate while the plug tray passes underneath the unit. The gate and motor speed are adjustable to vary the depth of covering. The coverer motor is electronically linked to the conveyor to ensure constant covering at different conveyor speeds.

Roller Dibbler

The Roller Dibbler is a simple but effective device for dibbling the cells of plug trays prior to seeding. The roller has dibble pegs protruding to produce neat, uniform depressions in the growing media as it rolls over the tray. Roller Dibblers can be manufactured for almost all sizes of plug trays.

Conveyor Extension

This is a 30" (75cm) extension which can be fitted to either end of the seeder conveyor.

Watering Bar

Can be fitted to the conveyor extension to water before or after sowing, with the minimum of run-off.

Vibrating Tray Kit

This kit can be fitted in place of the rear roller to provide a large hopper for large quantities of larger seeds, such as vegetables or detailed marigolds.

Distributed by: