



Precision Vacuum Planters

**MS** *Mini Seed*

**Vegetable Planter**

MS Version D Row Unit



MS 8-Row Version A, planting lettuce in California

With a cast precision metering box and custom row spacing for specialty crops, the Monosem MS Series delivers superior durability, accuracy and value.



MS Onions



MS Spinach



MS Lettuce



MS broccoli



MS 8-row Version A, planting broccoli

## The Monosem Precision Vacuum System & how it works, year after year.

The patented metering box is the heart of the Monosem MS planter. With cast brass and aluminum components--it doesn't skip a beat. Every part of the metering system is precision engineered and then precision manufactured to ensure accurate seed singulation *every time you plant.*

The Monosem stainless steel seed disc is the heaviest in the industry (1mm thick) and precision made for accurate seed singulation. Unlike a cup or belt metering system for round seed, the flat surface of the Monosem stainless steel seed disc allows even the most irregular seed shape to be suctioned and gently held to the disc.

For ease of vacuum setting and to ensure accuracy, the clear plastic control window allows for viewing of the seed against the seed disc.

The vacuum is created through the turbofan. As the seed disc turns, an easily adjustable brass scraper ensures that only one seed is accurately positioned on the hole of the disc. A secondary scraper can be activated by adjusting two pins located on the metering box. This scraper is made available to reduce doubles with small raw seeds (broccoli, carrots, and cabbage) by scraping along the bottom of the seed line. Then a brass ejector block assures that the seed is released at a consistent angle.

**The results are precision seed spacing every time and years of consistent service.**



The MS Metering box cover is cast aluminum; every cover is laser measured to assure a tight fit.



The MS metering box has a rigid cast brass housing and sealed bearings making it remarkably durable.



Double line metering, Interior

Single and twin line vacuum distribution systems are available on the same metering box. A single lever metering adjustment is simple to use, while maintaining its dependability and precision.



Single line metering, Interior

Seed discs are available from: 18- 30- 36- 60- 72- 120- 180 holes, hole sizes from .5- .6- .65- .7- .8- .9- 1- 1.2- 1.5- 1.8- 2- 2.5 mm. Please consult us for special seed discs such as twin lines or hill dropping.

The single lever adjustment located on the metering box lets you easily set the height of the singulator.



The MS metering system is versatile enough to accurately space the smallest and toughest seeds. Shown here, the disc singulates lettuce seed.



**Monosem MS Planters are custom built and available in a wide variety of row spacing. Five unique row unit versions provide flexibility for all your specialty crop needs!**



MS Version A 18 line, with stacking toolbar, planting lettuce



MS 18 line lettuce, 6 lines per bed



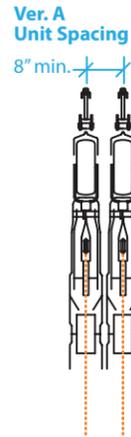
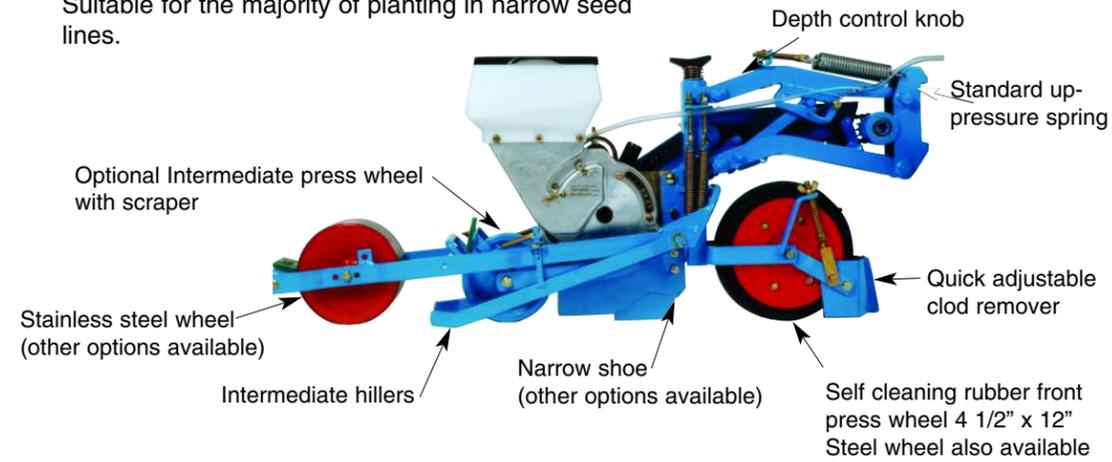
MS onions 40" centers, 4 lines per bed



MS 8x2-Row Version D, planting onions

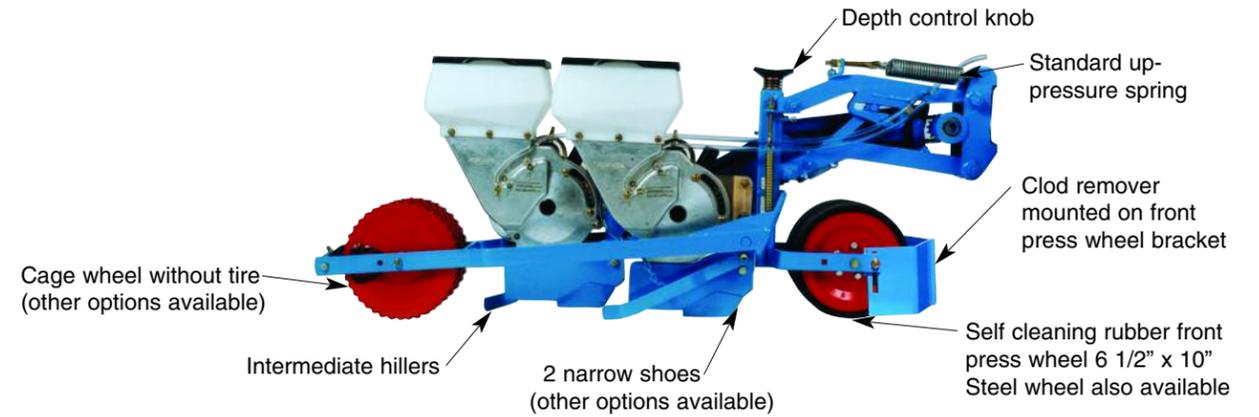
## Version A

**Single row unit for a minimum row spacing of 8".**  
Suitable for the majority of planting in narrow seed lines.

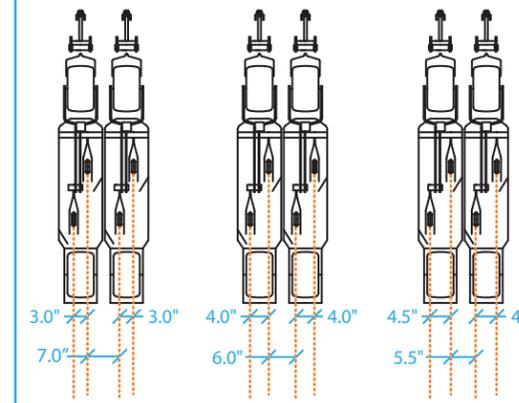


## Version D

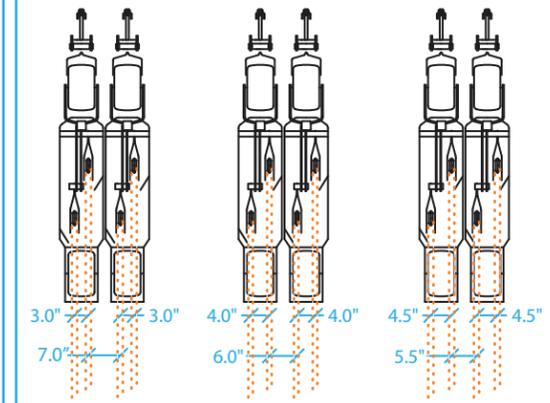
**Double row unit, each metering box single or twin line.**  
Allows multiple combinations of seed lines. Seed line spacing in double row unit from 3"-4.5". Minimum spacing between the units is 10".



**Version D Example 1, Seed line spacing options available with 10" minimum row unit spacing and single line shoes:**

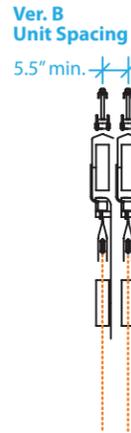
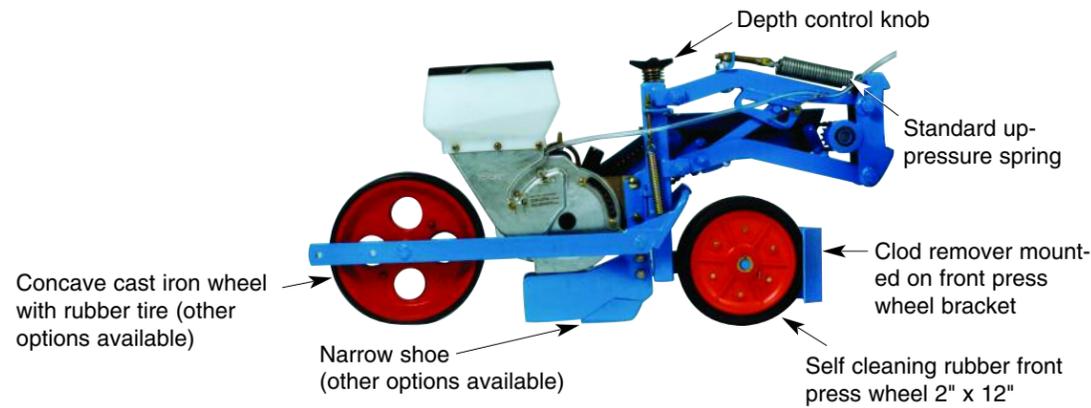


**Version D Example 2, Seed line spacing options available with 10" minimum row unit spacing and double-line shoes:**



## Version B

**Single row unit for a minimum row spacing of 5 1/2".**  
Simplified planter unit for crops with narrow spacing, such as radishes.

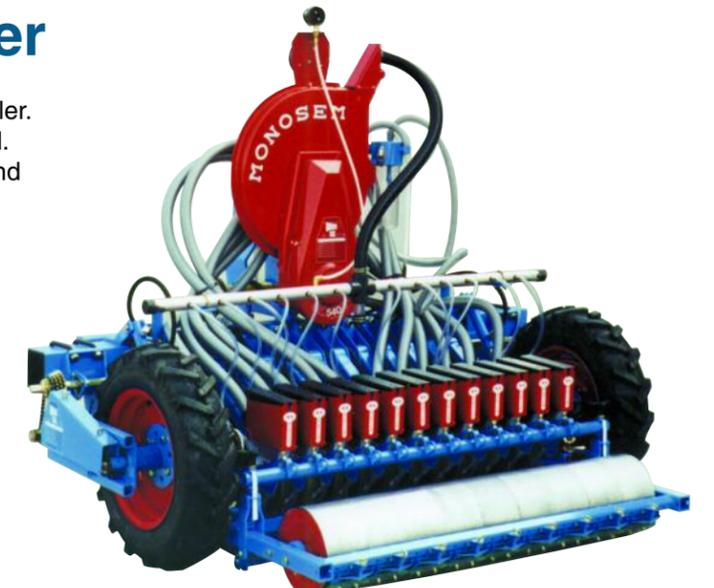


## Version E Seed Bed Planter

**Multiple lines for narrow row spacing.**  
Standard rubber front roller, standard stainless steel rear roller. Down pressure of both rollers can be hydraulically regulated. Recommended for those crops that require close spacing and multiple lines, such as lettuce, baby lettuce, spinach, radish, carrots, etc.



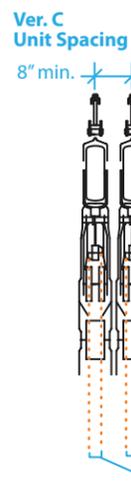
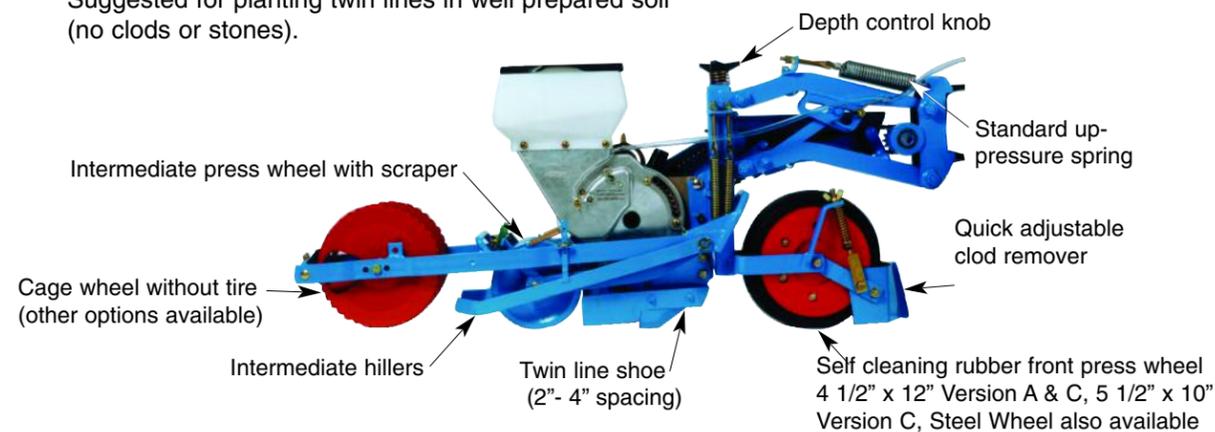
Standard rubber front roller



Standard stainless steel rear roller

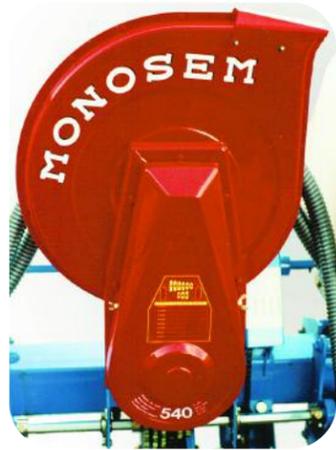
## Version C

**Twin line unit for minimum row spacing of 8".**  
Suggested for planting twin lines in well prepared soil (no clods or stones).



**The QUIET Turbofan**

with 16 outlets features a shield that protects against rain. Standard PTO speed of 540 rpm, on request 450 rpm and 1000 rpm.



**Optional Hydraulic Drive**  
in lieu of PTO

**Standard Vacuum Emptying System**

allows you to easily clean out left over seed from the hoppers and seed meter. The flexible hose is connected to the vacuum of the turbofan and sucks the seed into the **Seed Clean Out Canister** located at the top of the planter close to the turbofan.



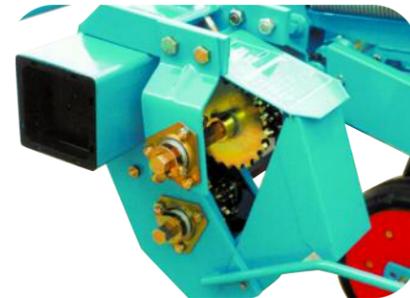
Vacuum Emptying System



Seed Clean Out Canister

**Mounted 5" x 5" Toolbar**

with adjustable drive wheels (for flat ground and beds) Now also available with 2 1/4" toolbars

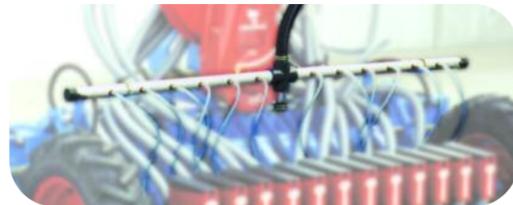


**Standard Seed Spacing Gearbox**

changes seed population through 16 different settings.

**Standard Secondary Air System**

indispensable for planting small light seeds such as carrots and lettuce. It cleans out plugged disc holes by feeding pressurized air to the backside of the seed disc.



**Optional Seed Monitor Systems** for version A & version D with standard shoe.



**Other Options:**

- Stacking toolbar
- Fertilizer system
- Row markers

**Optional Microsem Insecticide System**

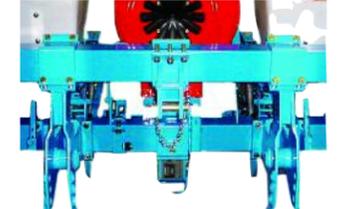
meters microgranular products such as insecticide and herbicide with a precise output that is unaffected by a change in planting speed.



Standard 3-point hitch



Optional special vegetable hitch for easy changes of row spacing



Optional double toolbar hitch for larger planters.



Rubber rear press wheel, 5 1/2" x 10"  
**Versions A, C**



Wider rubber rear press wheel, 6 1/2" x 10"  
**Version D**



Cage rear wheel without tire, 4 1/2" x 10"  
**Versions A, C**



Wider cage rear wheel without tire, 6 1/2" x 10"  
**Versions D**



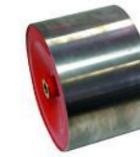
Stainless steel rear press wheel, 4" x 8"  
**Versions A, C**



Flat front or rear stainless steel press wheel 4" x 10"  
**Versions A, C**



Wide flat front or rear stainless steel press wheel 5 1/2" x 10"  
**Version C**



Wide flat front or rear stainless steel press wheel 6 1/2" x 10"  
**Version D**



1.5 and 3 liter hoppers  
**Versions A,B,C,D,E**



2" - 4" shoe  
**Versions A, B, C, D**



Standard narrow shoe with cast point and regular wings  
**Versions A, B, C, D**



Special shoe with a short point for shallow planting  
**Versions A, B, C, D**



Stainless steel intermediate wheel  
**Versions A, C**

# MONOSEM

Precision Vacuum Planters

## MS *Mini Seed*

### Vegetable Planter



MS 12x2-Row, Version D, Configured for Onions, Washington State

## First in Quality & Accuracy for True Precision Planting

Monosem MS planters plant raw and pelleted seeds to a stand, reducing seed cost and labor.

Easy access to seed discs and a vacuum emptying system to clean out hoppers make seed changeover simple.

Each Monosem planter is custom-built to order and the quality is demonstrated with years of consistent service. Plus they are easy to use!

A full line of parts, supplies and accessories make Monosem planters dependable and versatile for seasons to come!

# MONOSEM <sup>Inc.</sup>

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