

MONOSEM

Precision Vacuum Planters

MS MiniSeed

Vegetable Planter



MS Spinach



MS Lettuce



MS Onions

For Planting Raw and Pelleted Small Seed Crops

MONOSEM

MS Mini Seed

MS Advantages

Monosem MS planters plant both 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.

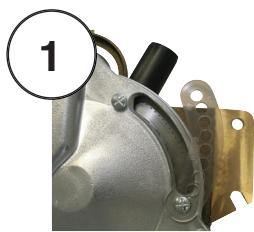
Each Monosem planter is custom-built to order and the quality is demonstrated with years of consistent service and ease of use!



MS Version M Multi-Line

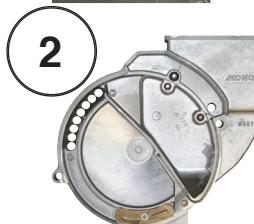


MS Metering Box



Control Window

A large transparent window aids in fine tuning of the meter for accurate singulation.



Seed Meter Cover

The MS Metering box cover is cast aluminum: Every cover is laser measured to ensure a precise fit.



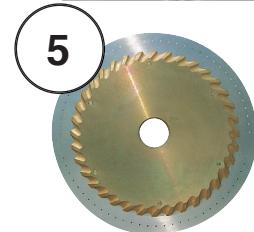
Seed Ejector

The brass ejector block, shown mounted in the meter cover, directs seed release at the same consistent angle for consistent spacing.



Seed Singulator

The brass singulator eliminates doubles. A spring on the cover maintains positive contact against the disc for optimal singulation with small seeds.



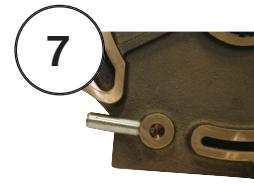
Seed Disc

The Monosem stainless steel seed disc is the heaviest in the industry (1mm thick) and precision made for accurate seed singulation.



Meter Housing

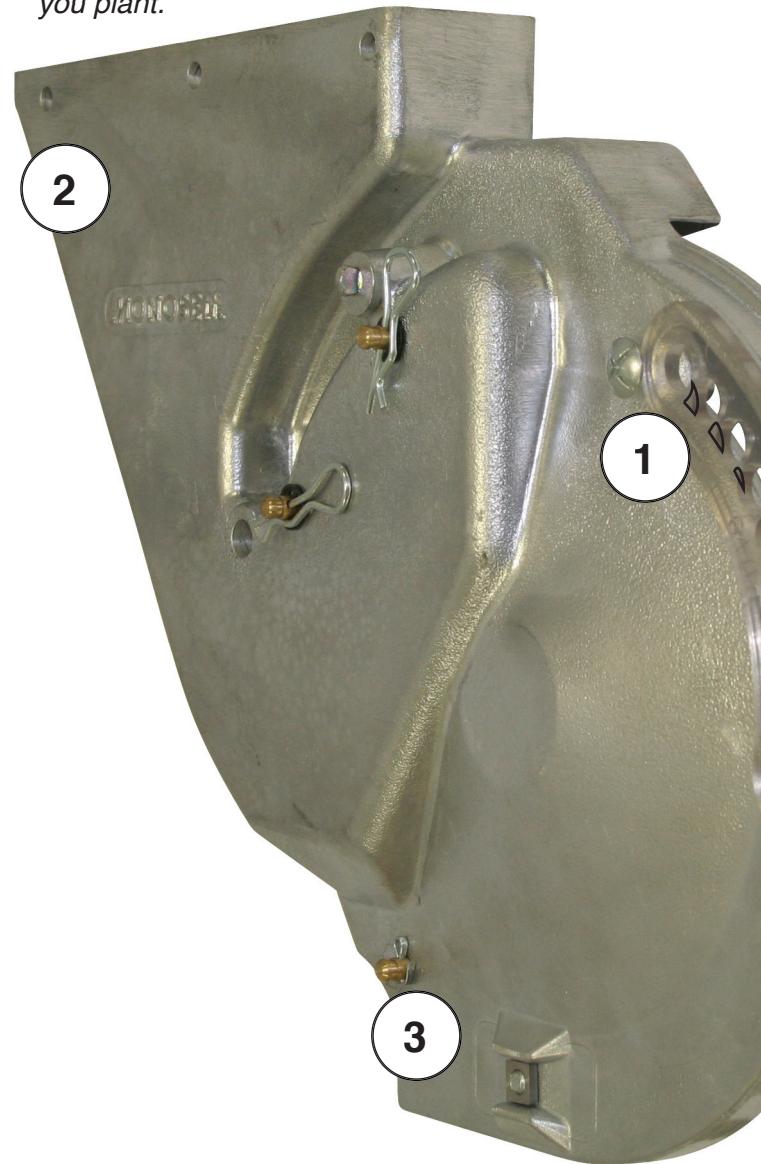
The MS metering box has a rigid cast brass housing and sealed bearings making it remarkably durable.



Secondary Air Cleanout

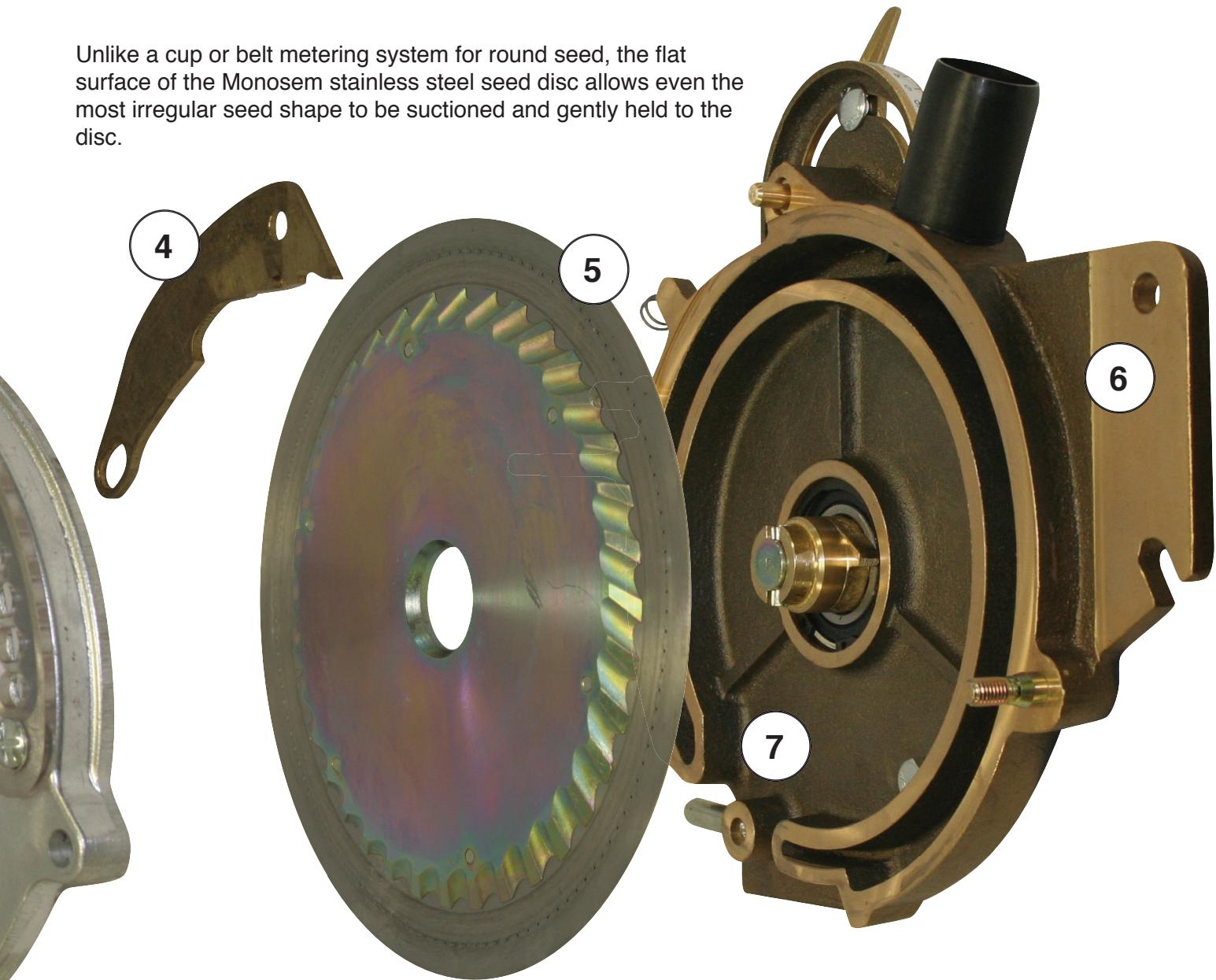
A must for planting small light seeds such as carrots and lettuce. It helps clean out plugged disc holes by feeding pressurized air to the backside of the disc.

Every part of the metering system is precision engineered and then precision manufactured to ensure accurate seed singulation *every time you plant.*



**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.
Custom seed discs available for twin lines and hill dropping.**

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.

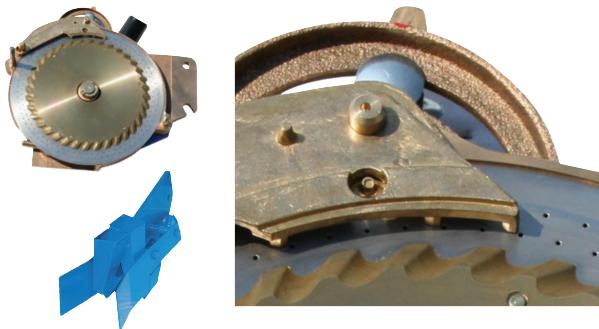


Planting Double Line Crops

The MS metering boxes can plant in single line as well as double lines. For this, the single line shoe is simply replaced by a double line shoe, the disc with one line of holes is replaced by a disc with 2 lines of holes and a 2nd selector is added.

To Change from Single-line to Double line,

Double-Line Singulator
+
Double-line Seed Disc
+
Split-Shoe



One single adjustment for 2 selectors

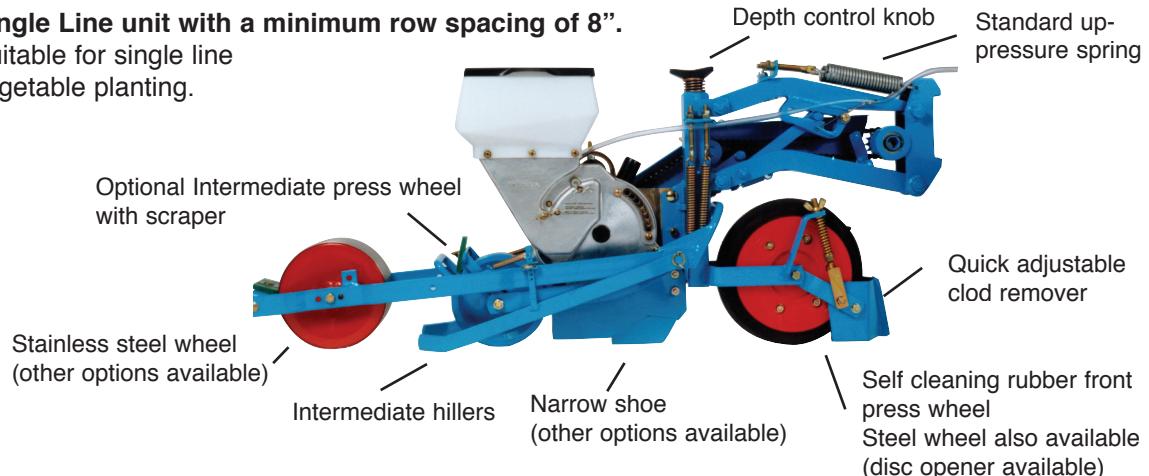
Single line and double line on the same unit

MS Row Units

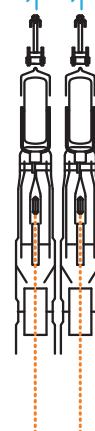
Version A

Single Line unit with a minimum row spacing of 8".

Suitable for single line vegetable planting.



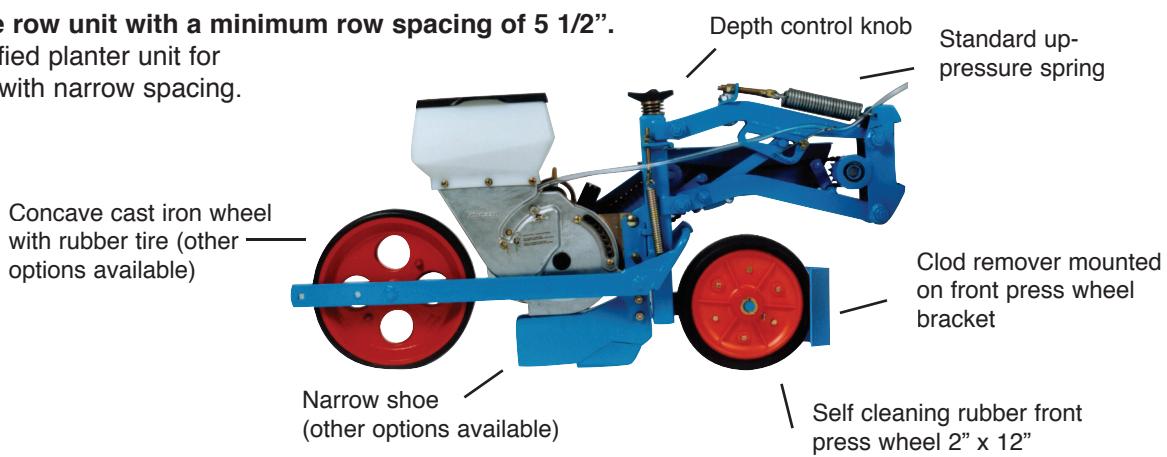
Ver. A
Unit Spacing
8" min.



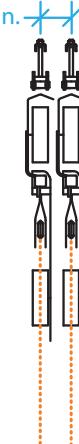
Version B

Single row unit with a minimum row spacing of 5 1/2".

Simplified planter unit for crops with narrow spacing.



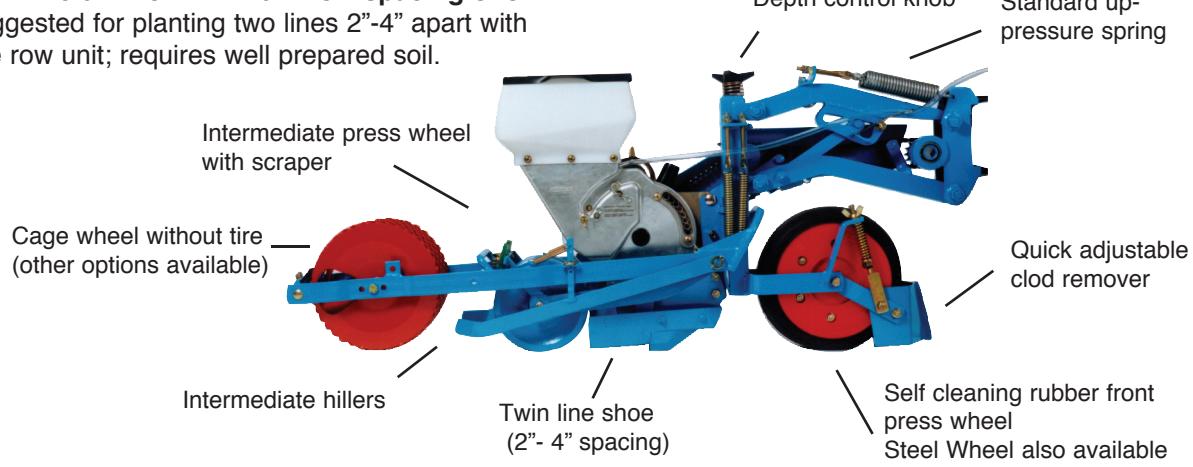
Ver. B
Unit Spacing
5.5" min.



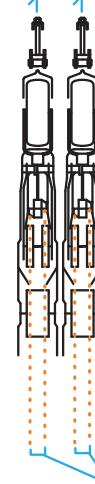
Version C

Twin line unit for minimum row spacing of 8".

Suggested for planting two lines 2"-4" apart with one row unit; requires well prepared soil.



Ver. C
Unit Spacing
8" min.

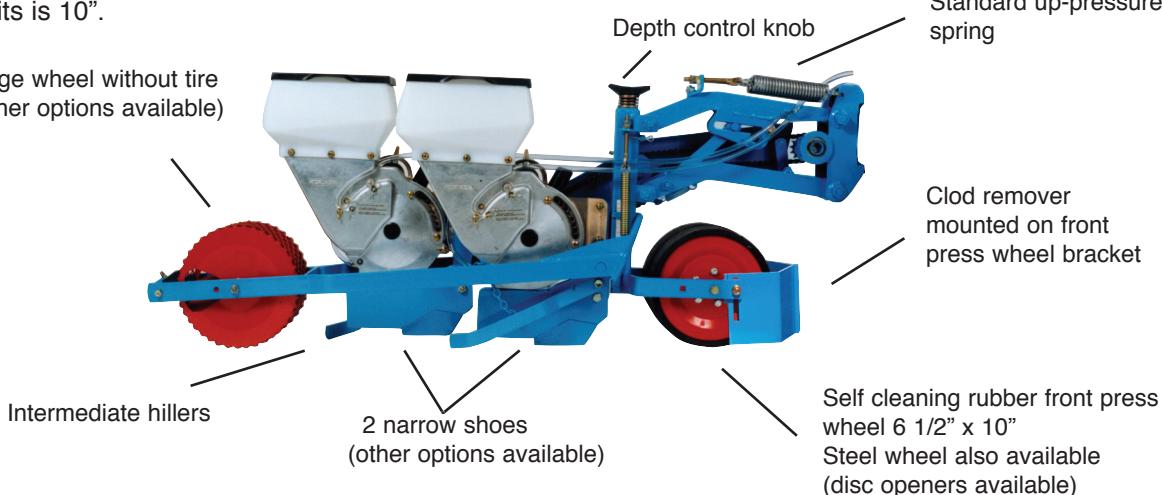


Version D

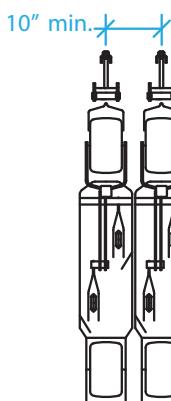
Double row unit, each metering box single or twin line

Allows multiple combinations of seed lines. Seed line spacing in double row unit from 3"-4.5". Minimum spacing between the units is 10".

Cage wheel without tire (other options available)



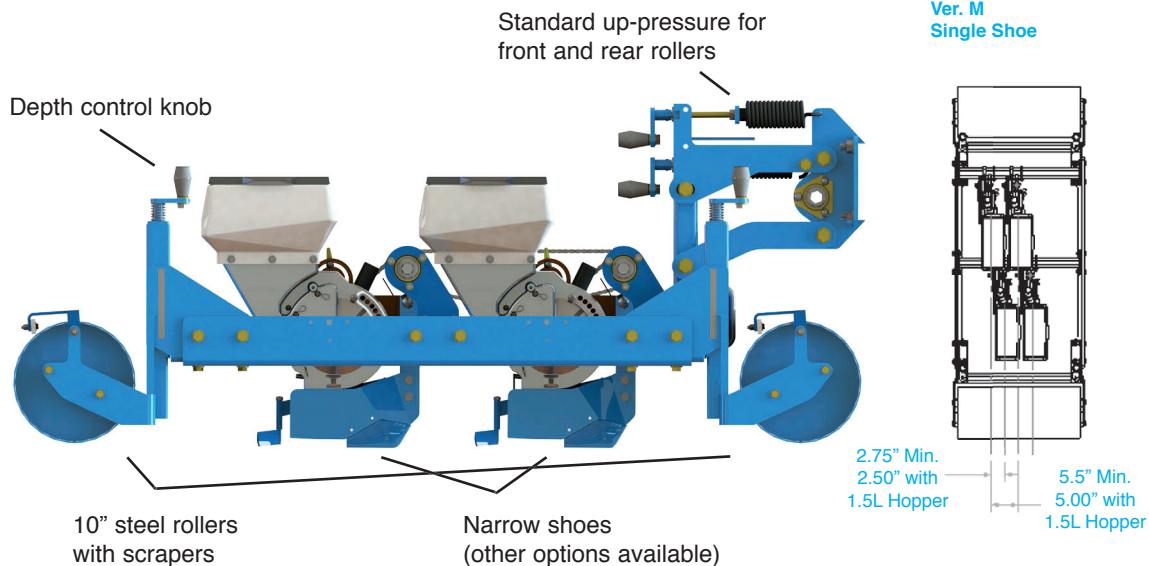
Ver. D
Unit Spacing



Version M Multi-Line

Multiple seed lines for high population seeding.

Depth is controlled by the front and rear rollers.



Ver. M
Single Shoe

Ver. M
Split Shoe

Bed Width	Bed top width	Max lines single shoe	Max lines split shoe
40"	24.5"	8	10
60"	44.5"	16	20
80"	64.5"	23	30

Custom Bed Widths Available

MS Custom Built Planters

MS 6-Row Version A
Planting 6 lines



The Monosem MS mini seed planter is always assembled to your specifications.

The Version A is a single row unit with a single seed line. It is possible to convert a single row Version A into a double row Version C and the other way around within a few minutes, with an additional two line seed plate and secondary singulator. Version A requires a minimum of 8" between seed lines.

MS 12-Row Version B
Planting 12 lines



Sync-Row Stagger planting three seed hill drops on three lines.

The Version B is a very narrow single row unit. With narrow press wheels, it allows seed lines to get down to 5.5".

MS 7-Row Version C
Planting 14 lines



The secondary scraper is used on a Version C to singulate seed on the lower set of seed disc holes.

MS 12-Row Version D
Planting 24 lines



The Version D is a row unit with two staggered metering boxes on one carrier unit. Each meter has a single or optional twin seed lines to allow for multiple combinations of seed lines. Seed line spacing in the double row unit can be adjusted from 3" to 4.5".

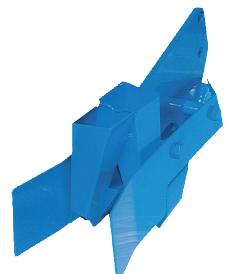
Optional sync-row is available to stagger seed between the two meters.

MS 4 Bed 40" Version M
Planting 24 lines



The Version M is a multiple meter row configuration designed for very close seed lines. Seed lines as narrow as 1" apart across the bed top. Perfect for onions, carrots, spinach, and leafy greens where high populations and narrow seed line spacing is desired.

MS 3-Row Version C
Planting 6 lines



The Version C has a single row unit that has a split shoe that produces two seed lines from one meter. 2" - 4" apart.

MS Custom Built Planters

Planting your crop is the most important aspect and requires the greatest care and precision. Because planting conditions are not always optimal, many farmers realize the need for larger planters.

MS 18-Row Version D
Planting 36 lines
Stacking Toolbar



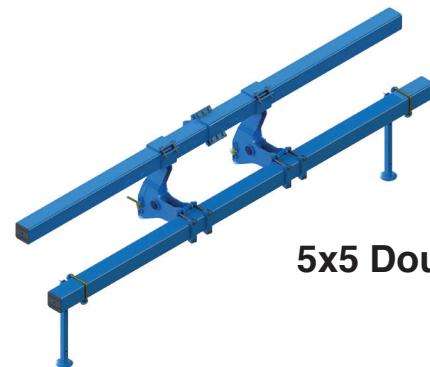
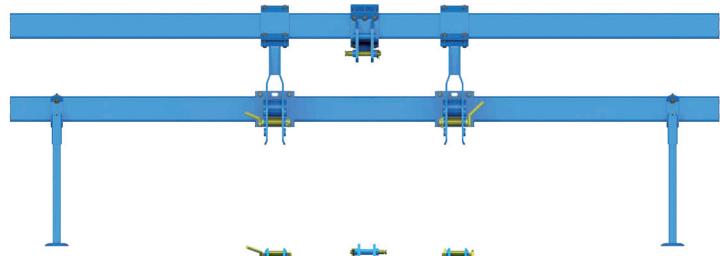
Larger MS models are available
in 5x5 and 7x7 stacking toolbars
for narrow transport.



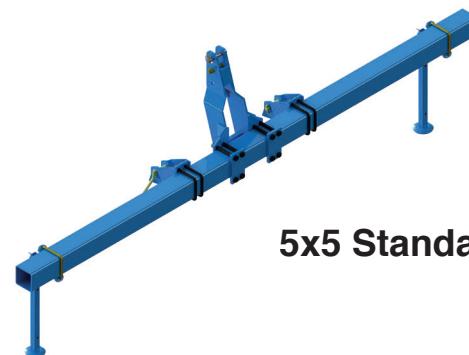
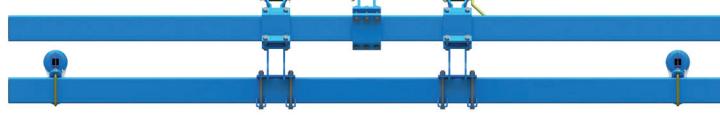
MS 15-Row Version A
Planting 15 lines
Stacking Toolbar



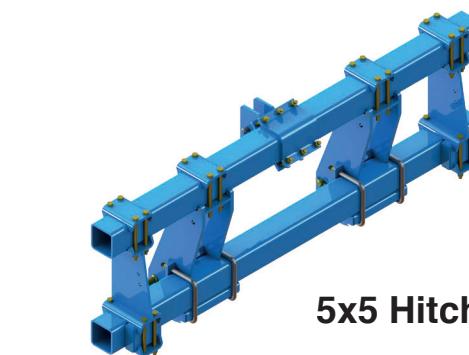
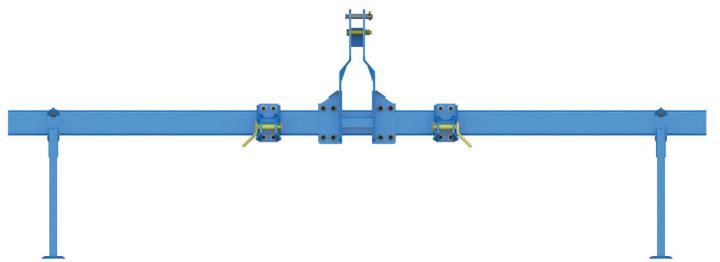
MS Toolbar Configurations



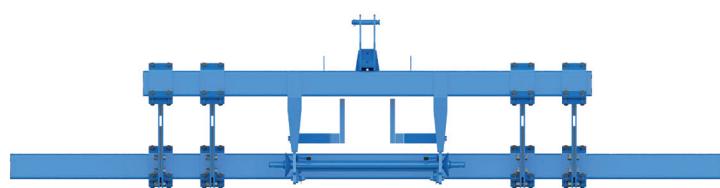
5x5 Double Toolbar



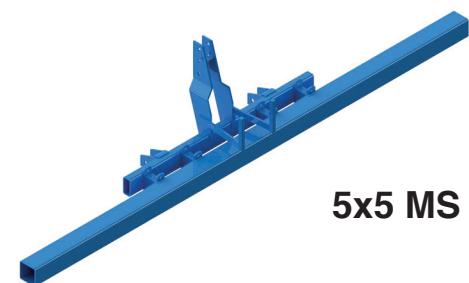
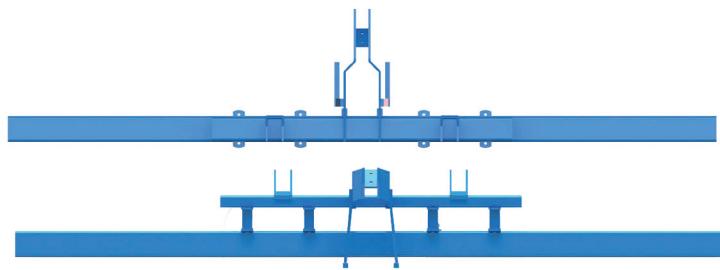
5x5 Standard Toolbar



5x5 Hitch Combo

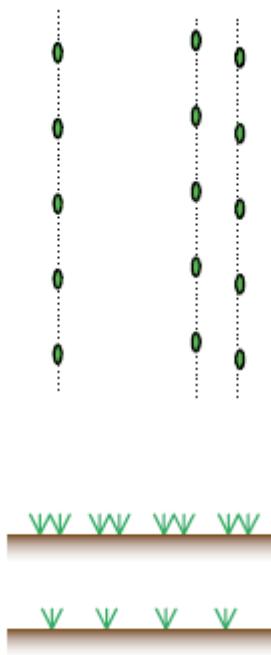


5x5 Advanced Toolbar



5x5 MS Toolbar

MS Seed Discs



The seed disc charts are given as a guide. The top chart displays the plant spacing within the rows for discs of varying numbers of holes along with the available hole diameters for the disc. The bottom chart provides hole diameter recommendations for various crops. More options are available, and hole diameter may vary for specified crops due to seed size.

Number of Holes		Distance in the Row (seed spacing gearbox and standard sprockets)	Diameter of Holes (mm)
Single Row Disc	Double Row Disc		
18	18 x 2	5 1/8" - 14 7/8"	6 - 7 - 8 - 9 - 10 - 12 - 15 - 18 - 20 - 22 - 25
30	30 x 2	3" - 9"	
36	36 x 2	2 1/2" - 7 1/2"	
60	60 x 2	1 1/2" - 4 1/2"	
72	72 x 2	1 1/4" - 3 3/4"	
120	120 x 2	3/4" - 2 1/4"	
180	180 x 2	1/2" - 1 1/2"	



Single Row Disc



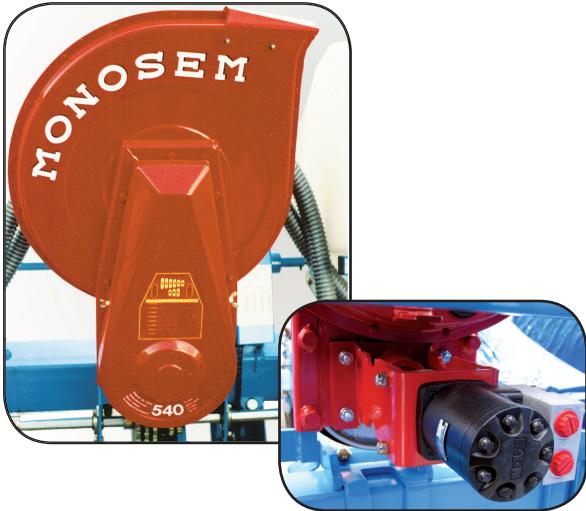
Double Row Disc

Diameter of Holes (mm)	Types of Seeds (given as a guide)
22	Chard, Pelleted Lettuce, Pelleted Onion
20	Asparagus, Sugar Beets
18	Cucumber, Spinach, Melon, Radish
15	Paprika
12	Pelleted Carrot, Cabbage, Coriander, Raw Onion, Radish, Tomato
10	Broccoli, Fennel, Mustard
9	Turnip
8	Lettuce, Poppy
7	Raw Carrot, Chives, Parsley
6	Endive, Raw Lettuce

MS Features

Turbofan

16 outlet turbofan features a shield that protects against rain. Standard PTO speed of 540 rpm. On request, 450 rpm and 1000 rpm are available. Capable of delivering 30" of vacuum.



Hydraulic Drive

PTO Available

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 pulls the seed into the **Seed Clean Out Canister** located at the top of the planter close to the turbofan.



Vacuum Emptying System



Clean Out Canister

Standard Secondary Air System

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



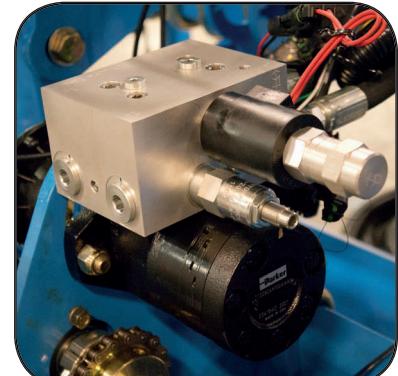
Standard Seed Spacing Gearbox

Changes seed population through 16 different settings with adjustable drive wheels (for flat ground and beds) Also available with 2 1/4" toolbars



IntelliAG Hydraulic Drive Motor

IntelliAG variable rate hydraulic drive automatically controls planting, as well as liquid and granular product application, section control capable. Complete monitoring of seed, and ground speed. Available with 10" and 12" monitors.



MS Options

Microsem Insecticide System

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



Bed Shaping Roller

Bed shaping roller with infinite height adjustment.



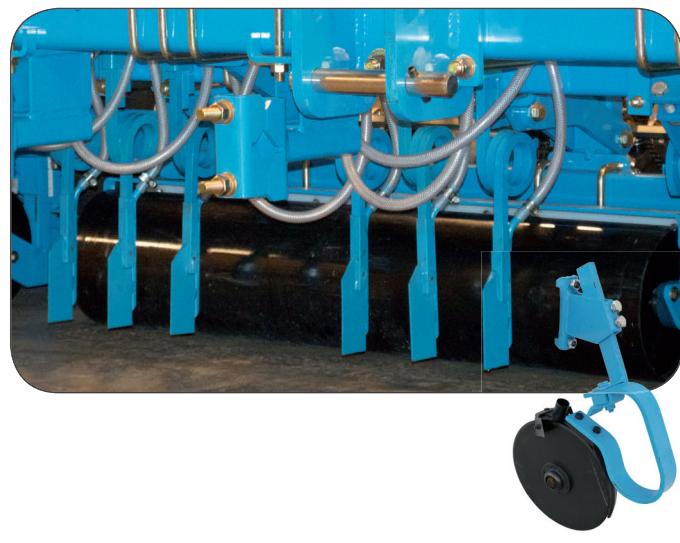
Dry Fertilizer

1, 2, or 3 outlet hoppers are available depending on the size of the planter. Available with either knife or disc openers.



Liquid Fertilizer

25 or 55 gallon tanks are available. Piston pump optional. Available with either knife or disc openers.



MS Seed Monitor Systems

for version A, B, D, and M with standard shoe.



PM 100

Basic seed flow monitor. 1-16 rows.



CS 3000

Basic seed flow monitor. 17-36 rows.



10" Cab Kit

Hydraulic drive controller for IntelliAG and complete seed monitoring.

Front Depth Wheel Options



Rubber front depth gauge wheel.
Version A, C 4"x12",
5.5"x10"

Version D 6.5"x10"



Stainless steel front press wheel for smooth flat seedline.
Version A, C 4"x8",
4"x10", 5.5"x10"

Version D 6.5"x10"



Stainless steel front depth wheel. Narrow rows.
Version B 2.75"x10"

Also available in rubber.

Rear Closing Wheel Options



Rubber rear press wheel with self cleaning flex center rubber tire.
Version A, C 5.5"x10"

Version D 6.5"x10"



Cage rear wheel waffle marks bed top to promote soil cracking for seed emergence in crust conditions.
Version A, C 4.5"x10"

Version D 6.5"x10"



Stainless steel rear press wheel for smooth flat seedline.
Version A, C 4"x10",
5.5"x10"

Version D 6.5"x10"



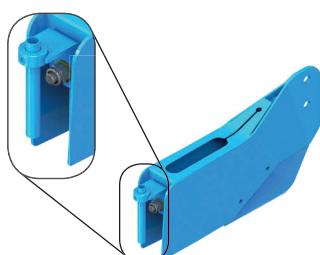
Rubber rear press wheel. Narrow rows.
Version B 2.75"x11"

Also available in stainless steel.

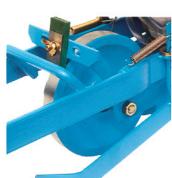
Shoe, Hiller, Disc Opener, and Hopper Options



2" - 4" shoe
Versions B, C, D, M



Standard narrow shoe with cast iron point.
Versions A, B, D, M



Stainless steel intermediate wheel
Versions A, C
Optional on
Version D



Double Disc Opener
Versions A, B, D



1.5 and 3 liter hoppers
Versions A, B, C, D, M



MONOSEM

Monosem Inc. / North America Heavy Duty Custom Built Planters

NG plus 4

For Row Crops



MS MiniSeed

For Small Seeds



Monosem is dedicated to bringing you the best in planting technology,
helping you achieve best results from every seed you plant.

#MostImportantPass

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