

MONOSEM

Precision Vacuum Planters

NG plus 4

the Original Patented
Twin-Row Planter

Quality & Versatility For Long Term Value



**Twin-Row
Advantages**

Better plant spacing

- less competition for nutrients and moisture
- better root development
- more space for more sunlight: more photosynthesis, better growth

Quicker canopy

- controls weed pressure
- conserves moisture

Available in Single Row Models from 2 - 48 Rows, Twin Row Models from 2 - 24, Pull Type or Mounted, Rigid or Folding, with Custom Spacing and Configuration.

12x2 Twin-Row in Nebraska Planting No-Till Corn

One investment - Harvested with a conventional corn head.

Twin-Row Innovation

Monosem has been engineering the Twin-Row configuration since 1996 and holds multiple related patents. Twin-Row planting with a staggered seed drop in a diamond pattern allows for the best growth potential. The diamond pattern provides optimal spacing and quicker canopy than single rows. The result of this advanced Twin-Row configuration is roots have more growing room, plants are able to absorb more sunlight, producing a healthier plant with higher yield potential. In university studies, the Twin-Row's rapid canopy closure helped to control weeds, conserve moisture, and reduce disease.

Research stations, University studies and farmer studies also showed an **8-16% yield increase** when planting in Twin-Rows. Monosem makes these advantages possible with the precision spacing of our patented metering system. Precision planting with the quality Monosem Twin-Row helps reduce input costs and achieve higher yields, year after year, with consistent performance. And the quality components mean lower cost on maintenance which also means **best return on investment**.

A Winning Combination

- **Monosem** precision planting combined with Twin-Row advantages allow each plant to develop to its maximum potential!
- Data indicates an **8-16% yield increase** for Monosem Twin-Row crops, compared to single row!



Twin-Row Soybeans



Twin-Row Corn



Precision Vacuum Planters



Advantage Options

Sync-Row®

Monosem Patented Twin-Row Seed Stagger Timing System

Planting in a diamond pattern seed drop maximizes space between each plant and reduces competition for nutrients.

On Monosem planters, independent row units driven by a shared hex shaft ensure the Sync-Row® diamond pattern remains consistent, pass after pass. Combined with Monosem precision, the Sync-Row® system is the best investment for best yield potential.

- Easily adjusted with a simple turn of the dial, less than one minute per twin-row pair!
- Adjusts the position of the seed disc to synchronize seed drop.
- Timing system designed to maintain the staggered seed-drop and create the diamond pattern.



MONOSHOX®

No-Till / Min-Till Dampening System Heavy Duty Linkage

- Lower linkage accommodates a variety of attachments.
- Minimizes row unit bounce.
- More consistent seed depth.
- Better seed spacing.
- Higher planting speed.
- Heavy Duty - holds up in the toughest no-till conditions.

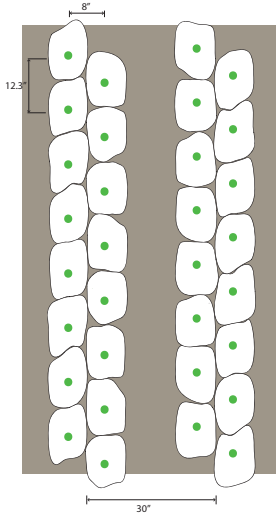
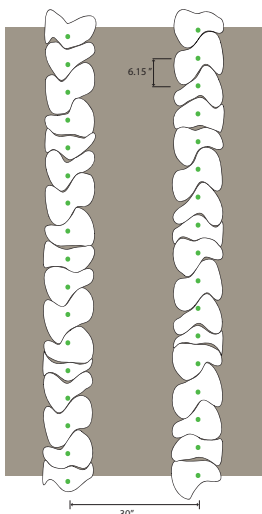


Single Vs. Twin-Row

Scale Root Mass Comparison on 0.001 Acre plots (60in.x104.5in.)

Single Row Corn
Population density on 0.001 acre @ 34,000 seeds/acre

Twin-Row Corn
Population density on 0.001 acre @ 34,000 seeds/acre



Optimal spacing, bigger root mass, better uptake, faster canopy, less water, bigger plant, fewer weeds, higher yield.

Harvested with conventional corn heads, on 30", 32" or 36" row spacing.

The Monoshox System

Conservation tillage creates challenges for precision planting. Crop residue increases row unit bounce which is a limiting factor on both speed and accuracy.

To overcome this, Monosem provides the optional Monoshox upgrade for all types of Conventional, Min-Till & No-Till planting. The adjustable down force spring allows a match to any type of field condition. In conjunction with adjustable down pressure, the gas-filled shock-absorber minimizes upswing to greatly reduce row unit bounce and maintain consistent down pressure at all range of travel, even at higher speeds. This enables **wider daily coverage** without sacrificing accuracy.

Even the most difficult No-Till situations are no problem with up to 500 lbs of pressure around this unified spring & shock system.

Bottom line - smoother travel with consistent ground contact produces true precision planting.

50 years of research and innovation in every unit.

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See the build-to-order options at: www.monosem-inc.com