Monosem recognizes the need for every farmer to achieve maximum results from the seeds they plant. For that reason, Monosem concentrates exclusively on building precision planters and supplying each farmer with a custom-built machine. From the core of the machine to the options and accessories, each Monosem planter is engineered to include the four critical factors needed to achieve perfect planting every time, no matter what your planting needs:

1.) Accurate Seed Singulation
Each planter utilizes the Monosem vacuum metering system, which holds the seed gently onto the holes of the seed disc. The flat surface of the heavy-duty stainless steel seed disc accepts a wide variety of seeds, whether irregular or round, coated or uncoated, without any loss in accuracy.

2.) Accurate seed spacing
The Monosem patented metering box contains a single adjustment lever that adjusts the height of the seed scraper and the vacuum pressure at the same time. The scraper aligns the seed to the hole and eliminates doubles and skips. As the seed disc turns, a brass ejector block assures that the seed is dropped at a consistent angle, reducing seed bounce inside the seed tube and resulting in precision seed spacing every time.

3.) Consistent depth control
The double disc openers are flanked by independent large depth gauge wheels that are engineered with an equalizing rocker bar. This assures uniform depth control, even in cloddy or rocky conditions.

4.) Good seed to soil contact for germination
Monosem offers a selection of closing wheels to give you the necessary seed to soil contact for good seed germination in any soil condition. The popular V press wheels are independently mounted and are adjustable for shallow, medium or deep planting.

Monosem takes pride in each custom built planter, designed with these four critical factors in mind for the ultimate in precision planting. Always accurate and dependable, Monosem planters are engineered with you in mind – for the best way to grow!
The Patented Metering System

...and How It Works Year after Year.

Quality Construction - Long Term Use

Cast aluminum
The precision engineered cast aluminum metering box will maintain its accuracy year after year, even with exposure to the harsh elements! Plus, its special shape allows for planting even when a minimum of seed is left in the hopper. Contains sealed bearings for durability.

Replaceable wear surface insert
The wear insert (the only plastic in the meter box) protects the metering box from wear and extends the life of the metering system components. Plus, it is easily removable and replaceable.

Rigid stainless steel seed discs
Durable and long lasting, the seed discs are made of 1.6 mm thick stainless steel and are specially designed with precision hole size and spacing— all to ensure accurate seed singulation for years to come. A large selection of discs are available to suit a wide variety of row crops.

Curved seed tube
The seed tube is specially shaped to guide the seed gently into the seed trench, eliminating seed bounce.

Easy to change from crop to crop!

The correct seed disc is selected based on the size and weight of the seed. For example, one bean seed disc can plant a wide variety of bean seeds. To plant different crops, you need only adjust the metering box singulator (adjusts both vacuum and height of the scraper) and change the seed disc.

Change seed discs in 4 easy steps!
1. Remove cover by loosening wing nuts.
2. Lift out seed scraper and seed disc.
3. Insert new seed disc and scraper.
4. Replace cover, and tighten with wing nuts.

Durability, Accuracy and Consistency

Innovative Engineering combined with Quality Construction produces exceptional value from start to finish.

The precision of the metering box results in accurate seed singulation. Seeds are suctioned to the seed disc, not blown or held in a cup, as with a air systems that require a round sized seed. Stainless steel seed discs with a smooth flat surface and a cast aluminum housing provide long life and gentle handling of the seed.
The QUIET turbofan with 12 outlets features a shield that protects against rain and raises to indicate that the turbofan is operating. Standard PTO speed of 540 rpm, on request 450 rpm and 1000 rpm. Optional hydraulic drive is available instead of PTO.

A high output turbofan with 12 or 16 outlets is available for larger machines that plant bigger seed or higher populations. Standard PTO speed of 540 rpm, on request 450 rpm and 1000 rpm. Optional hydraulic drive is available instead of PTO.

The extra high output turbofan offers the most volume of air. It is commonly used with planters that are 16-Row and larger. Can be used with either a PTO or a hydraulic motor. Most larger planters available with vacuum in the toolbar.

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NG Plus Planting Unit

Heavy-duty parallel linkage
The parallel linkage is longer than conventional linkage, ensuring a smooth ride through the field and reducing the bounce of the unit.

Stabilizer springs
Sturdy springs absorb shock and help to stabilize the unit in rough terrain. Optional heavy-duty down pressure springs also available.

Long life chain
Superior surface hardness increases wear resistance and extends the life of the chain.

Replaceable rock shield
The rock shield is easily removable and replaceable to extend the life of your planter.

Adjustable opening knife
Opening knife is independently adjustable to push rocks aside and prepare a clear path for the disc opener.

Large adjustable clod remover
Mounted in front of the disc openers, it pushes clods away in preparation for the seed trench. Optional residue manager, no-till coulter and floating clod remover available.

Heavy-duty double disc opener
The double disc opener has the thickest blade (4mm.) in the industry, the heaviest hub (cast iron), and a double-row bearing. This results in longer life, less replacement, and less maintenance. The powerful disc slices the soil, opening a straight seed trench. A firming point attached to the frame and positioned ahead of the seed tube also acts as a disc scraper.

Large heavy-duty plastic hopper
A 1.7 bushel (52 ltr.) capacity is standard with 2 and 3 bushel hoppers available.

Disengagement of metering box
Removal of a single lynch pin will disengage the seeding of the unit, adding to the versatility of the planter unit.

Depth control knob
Easy to use handwheel sets the planting depth by adjusting the height of the gauge wheels, and the setting is visible on the adjustment scale.

Replaceable wear bushing
The wear bushing between the arm and the spindle is easily replaceable to extend the life of the planter.

Independently mounted adjustable V press wheels
The adjustment allows for shallow (beet), medium (corn), or deep (bean) planting. Optional disc closing system with flat or V press wheel is available.

Small heavy-duty plastic hopper
A 1.7 bushel (52 ltr.) capacity is standard with 2 and 3 bushel hoppers available.

Disengagement of metering box
Removal of a single lynch pin will disengage the seeding of the unit, adding to the versatility of the planter unit.

Replaceable wear bushing
The wear bushing between the arm and the spindle is easily replaceable to extend the life of the planter.
No-Till Planting Unit

No-Till meets precision planting

The NG Plus no-till planting unit brings you the precision of NG Plus planting in even the toughest no-till conditions! The no-till unit uses a wider, shorter, parallel linkage that allows for more down pressure. When adding your choice of no-till accessories, this heavy-duty planter becomes a workhorse to cut through the residue in the field.

14” wide linkage
allows for more down pressure than the standard NG Plus linkage.

Precision seed metering system
The patented metering system brings you unmatched seed singulation and placement.

Adjustable heavy-duty down force
with 4 springs to push the unit through even the toughest conditions.

Adjustable heavy-duty down force
with 4 springs to push the unit through even the toughest conditions.

Unit mounted residue manager
moves residue (not soil) for better seed to soil contact.

Offset V press wheel
features adjustable down force springs and a 40 mm. double row bearings.

Double disc openers
have the thickest blade (4mm.) in the industry, heaviest hub (cast iron), and double-row bearing.

Face plate mounting
accommodates many unit mounted no-till or fertilizer attachments in the market.

Large heavy-duty plastic hopper
A large 2 bushel (60 ltr.) hopper is standard on the no-till planter, a 3 bushel hopper is optional.

Heavy-duty frame
A stamped frame adds rigidity and durability to the planter unit.

Oscillating swing bracket
on depth gauge wheels assures smooth travel in rough conditions.

Toolbar mounted spring-loaded no-till coulter
has the ability to mount to any size toolbar.

Face plate bolt-on mounting
Standard on the Monosem no-till row unit to accommodate most unit mounted no-till or fertilizer attachment.

Unit mounted no-till coulter/residue manager combo
first moves residue in the rows, then cuts an opening for the row unit.

Vertical adjustment accommodates blade wear

Vertical adjustment accommodates blade wear

Unit mounted no-till coulter
cuts an opening directly in front of the double discs in tough soil conditions. Available in several blade choices to fit your soil conditions.

No-Till Accessories
Specifications

**5x5 Mounted Planter**

**FRAME:** 3-point mounted Rigid single toolbar, 5x5 Rigid double toolbar, 5x5 bottom, 5x5 top

**PLANTING UNIT:** NG Plus MONOSEM Vacuum metering bin Double disc opener/gauge wheels Adjustable "V" closing wheels

**STANDARD ROW SPACING**
- 2 Row 30-40” Single toolbar rigid frame If transport width, 972 lbs.*
- 4 Row narrow 30’ rows Single toolbar rigid frame 9’6” transport width, 1510 lbs.*
- 4 Row wide 36, 38, & 40” rows Single toolbar rigid frame 11’6” transport width, 1450 lbs.*
- 6 Row narrow 22-35” rows Single reinforced toolbar rigid frame 14’9” transport width, 2010 lbs.*
- 8 Row narrow 22-35” rows Single reinforced toolbar rigid frame 20’ transport width, 2960 lbs.*

**DRIVE SYSTEM**
- Ground drive
- Two drive wheels on single toolbar

**GEARBOX**
- One on single and double toolbar

**HITCH**
- Category III, narrow and wide, bolt on and adjustable Category I pin available

**MARKERS/ HYDRAULICS**
- Single marker on single frame
- Double folding marker on double toolbar frame

**FRAME:**
- 5x5 Mounted Planter
- 7x7 Mounted Planter
- 10x2 Twin-Row 36-40” rows Stacking Toolbar 19’8” transport width, 11500 lbs.*

**Twin-Row - NG Plus 12x2**

Twin-Row planter pictured with optional cast iron closing wheels. The Twin-Row planter is able to plant multiple sets of Twin-Rows, with 7.5” to 9” spacing within the Twin-Row. Staggered row units on one common toolbar allow for better residue flow and easier handling for transport. Planter is shown planting in Mississippi Delta and can be used for corn, soybeans, sorghum, peanuts & more.

**Easy Adjust**

NG Plus 6-row planter with 36” row spacing and mounted double toolbar shown planting cotton in Georgia. A 5x5 top toolbar combined with a 7x7 bottom toolbar eliminate stress on the top link of the center mast. The end mounted seed spacing transmission needs no tools for adjustments and makes changing populations easy. Standard adjustable drive wheels are used for flat planting or on beds, and the tractor tread tires reduce slippage. This machine is easily changed over to plant crops such as peanuts, corn, soybeans, and vegetables.

**Durable**

NG Plus 12-row planter 22” row spacing with 7x7x3/8” toolbar frame, air insecticide system, and row markers. Planter shown planting sugar-beets in the Red River Valley, North Dakota. This diverse planter can also be used to plant edible beans, sunflowers, field corn and soybeans.

**Specifications**

**7x7 Mounted Planter**

**FRAME:** 3-point mounted Rigid double toolbar, 7x7 bottom, 5x5 top Stacking toolbar 7x7

**PLANTING UNIT:** NG Plus MONOSEM Vacuum metering bin Double disc opener/gauge wheels Adjustable "V" closing wheels

**STANDARD ROW SPACING**
- 6 Row Wide 36-40” rows Double toolbar rigid frame 20’ transport width, 2954 lbs.*
- 8x2 Twin-Row Rigid 20’ frame, 4560 lbs.*
- 6 Row Narrow 30” rows Double toolbar rigid frame 20’ transport width, 3476 lbs.*
- 8 Row Wide 36-40” rows Double toolbar rigid frame 20’ transport width, 4180 lbs.*
- 8x2 Twin-Row 36-40” rows Rigid Toolbar 27’ transport width, 5960 lbs. Stacking Toolbar 12’1” transport width, 7095 lbs.*
- 12 Row Narrow 22-24” rows (Sugarbeets) Double toolbar rigid frame 23’ transport width, 5120 lbs.*
- 12 Row Narrow 30” rows Stacking toolbar frame 15’ transport width, 4440 lbs.*
- 12 Row Wide 36-40” rows Stacking toolbar frame 19’8” transport width, 4676 lbs.*
- 12x2 Twin-Row 36-40” rows Stacking Toolbar 19’8” transport width, 11500 lbs.*

**DRIVE SYSTEM**
- Ground drive
- Two drivegauge wheels on 6, 8, and 12-row 22-24” models.
- Four drive/gauge wheels on 12-row 30-40” stacking models

**GEARBOX**
- One on 8-row toolbar
- Two on 8 & 12-row toolbar
- Three on stacking toolbar

**HITCH**
- Category II & III, narrow and wide, bolt on and adjustable

**MARKERS/ HYDRAULICS**
- Single marker on 6-row wide 12-row toolbar frame
- Double marker on 6-row wide 12-row narrow toolbar frame
- Rear toolbar marker on stacking toolbar

**FRAME:**
- 7x7 Mounted Planter
- 10x2 Twin-Row 36-40” rows Stacking Toolbar 19’8” transport width, 11500 lbs.*

*Shipping weight reflects base machine only, does not include accessories such as double gauge wheels, granular insecticide or fertilizer applicator.*
Specifications

FRAME: Pull-type
Rigid frame 4, 6, & 8-row hydraulic
Center flex with hydraulic front fold 12, 16, & 24-row

PLANTING UNIT: NG PLUS MONOSEM
Vacuum metering box
Double disc opener/gauge wheels
Adjustable "V" closing wheels

STANDARD ROW SPACING
4-Row narrow 30" rows
4-Row wide 36 or 38" rows
6-Row narrow 30" rows
6-Row wide 36 or 38" rows
8-Row narrow 22-30" rows
12-Row narrow 30"-36" rows
16-Row narrow 30" rows
16-Row 28" rows
24-Row 30" rows
24-Row narrow 22-24" rows
36-Row 22" rows

DRIVE SYSTEM
Spring-loaded contact drive tire (4.10x6"
with No. 40 chain. One on 4-row. Two on 6, 8, and 12-row. Four on 16 and 24-row + No. 50 chain.
Quick-adjust end mounted seed transmission with machined sprocket (2 on 12, 16, and 24-row)
Hex drive (7/8") and drill shafts (with spring-loaded, hardened wing couplers on 12, 16, and 24-row)
Variable rate hydraulic drive system available on all models.

TYPE LIFT
Master/slave/hydraulics
4-row master/slave rephasing (2 cylinders)
6 and 8-row master/slave rephasing w/ assist cylinders (4 cylinders)
12-row master/slave rephasing with assist cylinders (6 cylinders)
7.5/15" tire on sizes up to 24-row 22". 14x16" tire standard on all larger frames.

MARKERS
Heavy-duty conventional: 4-row narrow/wide and 6-row narrow
Low profile two-fold: 6-row wide and 8-row narrow
Low profile three-fold: 12, 16 & 24-row

HYDRAULICS
Hydraulics for 4, 6, and 8-row
Standard: Single SCV
Optional: Dual SCV for independent operation of lift and markers
Hydraulic alternating sequence valve with flow controls for markers
Hydraulics for 12, 16, and 24-row
Dual SCV for independent operation of lift and markers. Hydraulic sequence valve with flow controls for markers

OPTIONS
Liquid fertilizer
Dry fertilizer
Granule insecticide/herbicide
Air insecticide system

Ultra Narrow Row Precision

Precision plant hybrid or standard rice with low input seeding! Easily converts to twin-row by locking up row units.

Models Available in Mounted or Pull-Type up to 40'

NG Plus Pulld-typr & Narrow Fold Planters

NG Plus Pull-Type Planters

Sugarbeet Planter- NG Plus 24-row planter with pull-type double toolbar shown planting sugarbeets in North Dakota. The end mounted seed spacing transmission needs no tools for adjustments and makes changing populations easy. Use the same machine to plant alternative crops such as soybeans, sunflow-
ers, corn and edible beans.

Rice planted with 30-row UNR Monosem planter, 9.5" rows.

UNR Planters

See accurate seed singulation from the Monosem NG Plus metering system that is unmatched by any drill. The heavy-duty stainless steel seed disc allows for even the most irregular seed shape to be suctioned and gently held to the disc. Allows you to plant low rates without wasting seed.

The Monosem UNR planter features staggered row units that give better residue flow and easier handling for transport. This unique design allows the producer to go from 9.5" drill spacing to Twin-row 38" centers.
Sync-Row Seed Stagger Timing System
Taking Twin-Row to the next level!
The Sync-Row system was developed to maintain the staggered seed drop & create the diamond pattern. A dial on each meter box easily adjusts the position of the seed disc to synchronize seed drop. Maximizes your yield potential with more control to perfect your stagger!

Electronic seed monitor,
MPM I or II
models feature a bar graph for each row and an audible alarm for malfunctions. The MPM II displays additional data such as seed population, seed spacing, and area planted. Both have non-volatile memory.

Flat press wheel with disc closing system
has twin offset discs, adjustable down pressure spring, and an independent spring-loaded adjustment for discs. Ideal for cotton or other shallow planted crops.

V press wheel with disc closing system
has twin offset discs, adjustable down pressure spring, and an independent spring-loaded adjustment for discs.

Central Fill
On demand bulk seed delivery system optional. Shown here on a 16x2 Twin-Row 30’ planter. Central Fill carries the seed to the mini hoppers via air flow. Available with one or two 50 bu. tanks.

Microsem
meters microgranular products such as insecticide and herbicide with unequaled precision. The microsem is ground driven with a positive displacement, and the output is set by means of a transmission which makes it unaffected by a change in planting speed. The microsem system is mounted to the toolbar frame to reduce weight on the planter unit. Each microsem hopper has a 33 or 50 lb. capacity.

Granular insecticide/herbicide system
mounted to the planter unit and holds up to 70 lbs. of dry granular chemicals. Features a hand clutch to engage/disengage the metering mechanism for easy removal of the hopper. Lock and load valves are available for all three granular insecticide systems.

Air granular system
available for 12-24 row planters. Only one central hopper to fill with a capacity of 450 lbs., and only one dial to set (two on 24-row planter).

Optional Pull-type dry fertilizer
includes a heavy-duty double disc opener. 4-row has 2 hoppers, 1100 lb. capacity; 6-row, 3 hoppers, 1650 lb. capacity; 8-row, 4 hoppers, 2200 lb. capacity. Rates are easily adjusted from 40 to 600 lbs. per acre.
Monosem is dedicated to bringing you the latest in planting technology, helping you achieve maximum results from the seeds you plant. When you add it all up—seed cost savings, accurate seed spacing in the row, accurate seed singulation, accurate depth control and good seed to soil contact, you will be happy with the results—a healthy, uniform plant stand and high yields. Visit your Monosem dealer soon to experience the advantages of precision vacuum planting with a Monosem NG Plus planter.

Precision Vacuum Planters

Models Available:
2x2, 4x2, 6x2, 8x2, 12x2, 16x2, 18x2, 24x2 Twin-Row

In study after study, Monosem Twin-Row planting results in significantly higher yields, reduced disease, and better grades in crops such as peanuts, corn, soybeans, and sorghum. The proof of the Twin-Row advantage is demonstrated at harvest, where data indicates a 8-16% yield increase for Twin-Row crops as compared to single row crops. Plus the precision of the patented Monosem metering system and spacing as close as 7.5" within the Twin-Row give you results that you will have to see to believe!

Twin-Row peanuts, Georgia

Twin-Row silage corn, California

In University studies, Twin-Row crops canopy quicker to conserve moisture and reduce weed pressure, and are shown to have less disease.

Twin-Row works

How Twin-Row works
Twin-Row crops are planted with a staggered seed drop, allowing for more growing room and better canopy than single rows. As a result of the Twin-Row configuration, plants and their roots are spread over a larger area. The plants catch more sunlight and nutrients, making for healthier, more uniform crops. Monosem helps make this possible with the precision spacing of the patented metering system.

The Monosem Twin-Row advantage helps you achieve higher yields, reduced seed costs, and precision planting every time!

Monosem Twin-Row Advantages:
• Better plant spacing results in less competition for nutrients and moisture, better root development and stronger plant
• Quicker canopy results: controls weed pressure, conserves moisture
• One investment: Harvested with conventional equipment.
• University and Farmer studies indicate increased yields of 8% - 16%.
• Ability to increase populations.

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Precision planting counts!

Monosem Twin-Row in Mississippi