



Precision Vacuum Planters

NG Plus Series

Custom Planters Built-to-Order



24-Row Single Row Narrow Transport Pull-Type Custom Planter



Precision



Monosem recognizes the need for every farmer to achieve the best 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 accomplish the Four Critical Factors needed to consistently achieve best seed placement for each producer's conditions.

Planters



1.) **Accurate Seed Singulation**

The flat surface of the heavy-duty stainless steel seed disc accepts a wide variety of seed types, flat or round, coated or uncoated, without any loss in accuracy. The Monosem meter box contains a single adjustment lever that adjusts the height of the singulator and the vacuum pressure at the same time. The singulator aligns the seed to the hole and eliminates doubles and skips.

2.) **Accurate seed spacing**

As the seed disc turns, a brass ejector block assures that the seed is dropped at a consistent angle, resulting in consistent seed spacing.

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.

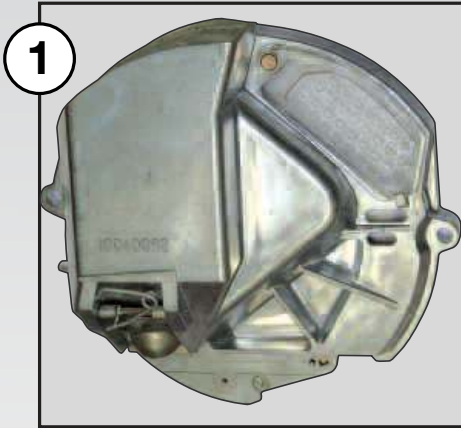
4.) **Good seed to soil contact for germination**

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.



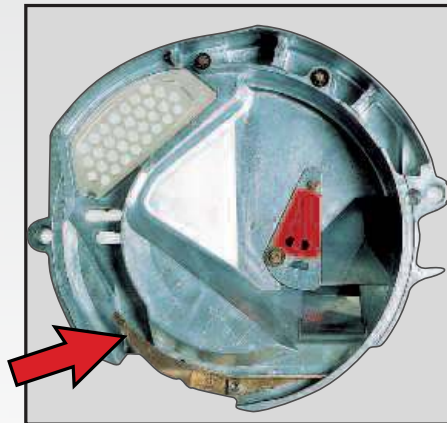
NG Plus Metering Unit

MONOSEM produces an accurate, simple and extremely reliable meter.



Cover (Exterior)

Cast aluminum cover provides accuracy without variation due to temperature. Easily removeable for access to seed discs.



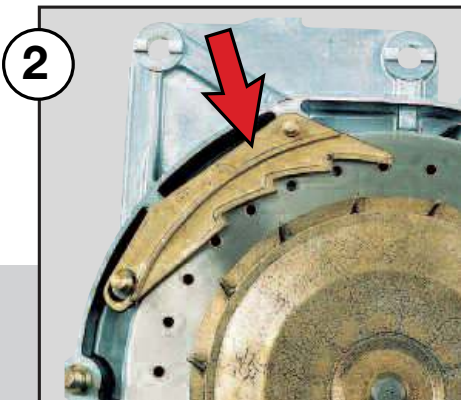
Cover (Interior)

The spring loaded brass ejector block, shown mounted in the Meter Cover, directs seed release at the same consistent angle for consistent spacing.



Control window

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

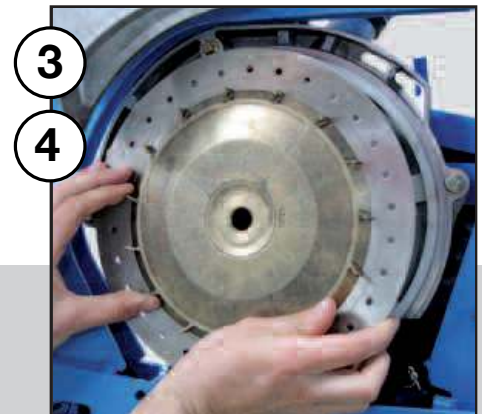


Singulator

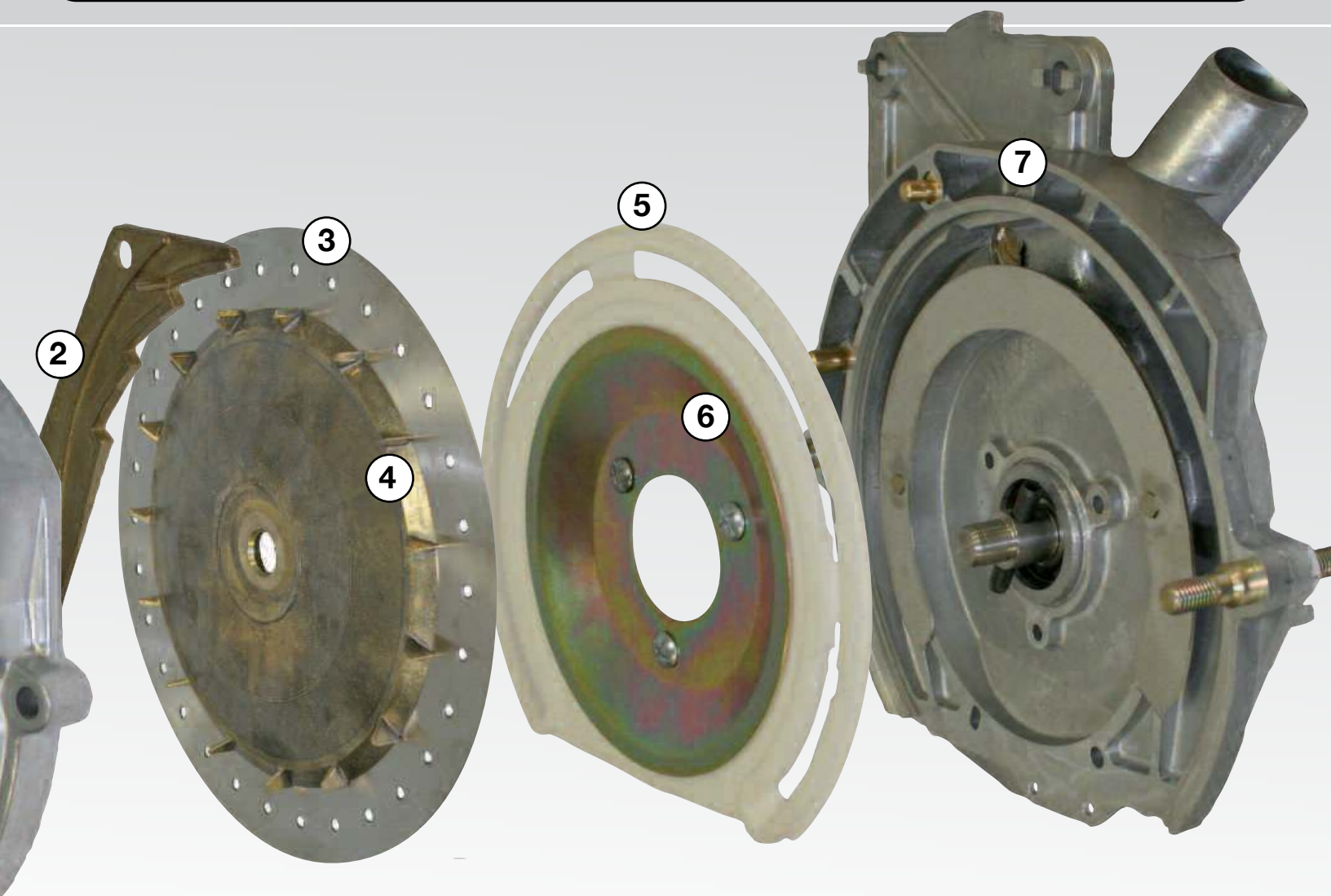
The brass singulator eliminates doubles. A spring on the cover maintains positive contact against the disc for optimal singulation, even with small seeds.



- 1. Meter Cover / Fill Side
- 1.a. Control Window
- 1.b. Clean-out



Durability & Precision: critical components made of cast aluminum, stainless steel and brass. These materials (instead of plastic) help eliminate static electricity and the need for graphite and extra talc. As a unit, these components produce consistently with a long service life.



2. Singulator
3. Seed Disc
4. Agitator

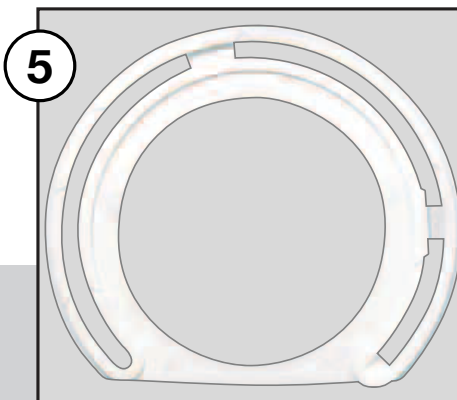
5. Teflon Wear Gasket
6. Hold down plate

7. Meter Cover / Drive Side
with Adjustment Lever
& Vacuum

Seed Discs

The 1.5 mm thick flat stainless steel discs with mounted brass agitators make a rigid durable meter. Changing is quick and done without tools.

**A complete range
of discs is available for all
precision seeding applications.**



Teflon Wear gasket

The replaceable teflon wear gasket maintains a smooth contact surface and seal between back of seed plate and vacuum side of the meter.

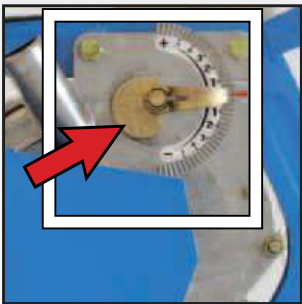


Easy Meter adjustment

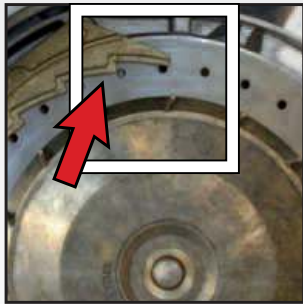
Singulator Adjustment Lever controls both vacuum and singulator:



Meter Exterior
Adjustment Lever

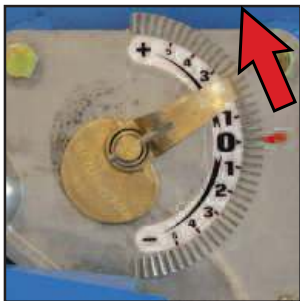


Meter Interior
Seed Singulator



For fine tuning adjustments:

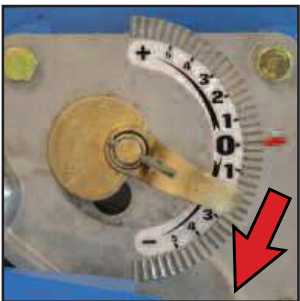
raise to
avoid skips
vacuum at full



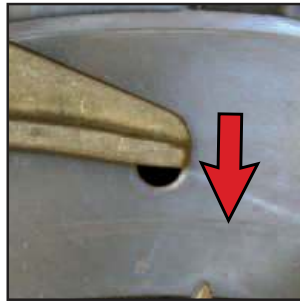
also moves
singulator higher
for larger seed size



lower to
eliminate doubles
vacuum reduces



also moves
singulator lower
for smaller seed size



Vacuum System Options

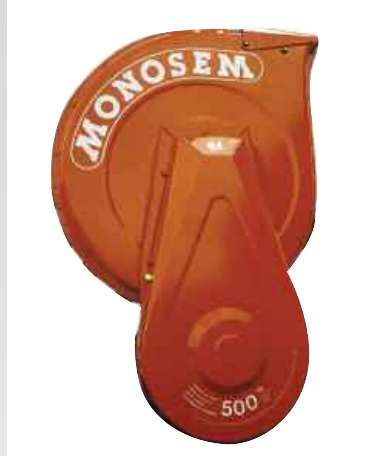
Turbofans

Available PTO or hydraulic drive.

Standard Turbofan



High Output Turbofan



Extra High Output Turbofan



Hydraulic Drive



Secondary Air System

Captures Turbofan exhaust and redirects to other side of seed plate directly after seed drop. Provides pressure clean out of fines and small seed debris.



Anti Drift Dust Kit

The Monosem Anti-Drift kit consists of a collector, a hose, a decompression chamber, and two hoses for redirection of the turbofan exhaust towards the ground. This system steers the air to the ground and decreases the speed, thus limiting the drift of dust from the insecticidal treatment of seeds.

The Monosem Anti-Drift Kit will be available as an option on 2014 model year Planters and the easy to install kit will be available to be retrofitted on existing planters.

Anti-Drift Kits are developed and approved by Monosem for the smooth running of the equipped Monosem planters. Monosem cannot guarantee the smooth running of planters equipped with other systems not tested or approved by Monosem.





Standard Linkage for Single Row, Twin-Row & UNR

Available for 5x5 or 7x7 toolbars

Hopper options:

- Mini Hopper - CSS
- 3/4 BU Receiving Hopper for CSS
- 1.5 BU UNR
- 2 bu. (Standard)
- 3 bu. (Shown)

Long travel linkage
evens out bounce
stabilizing springs
standard equipment

threaded adjustment
for precise depth settings

independent depth
gauge wheels

heavy duty v-disc
openers with cast hubs

Linkage Options

Heavy Duty Down pressure

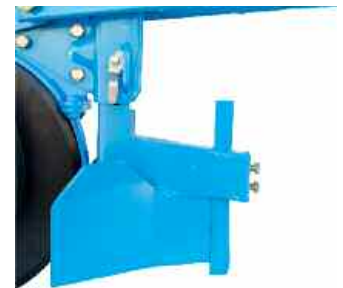


Quick adjust



Forward Options

pin adjustable height
clod remover



floating clod remover





Monoshox® Linkage

for 7x7 Single Row, Twin-Row & UNR

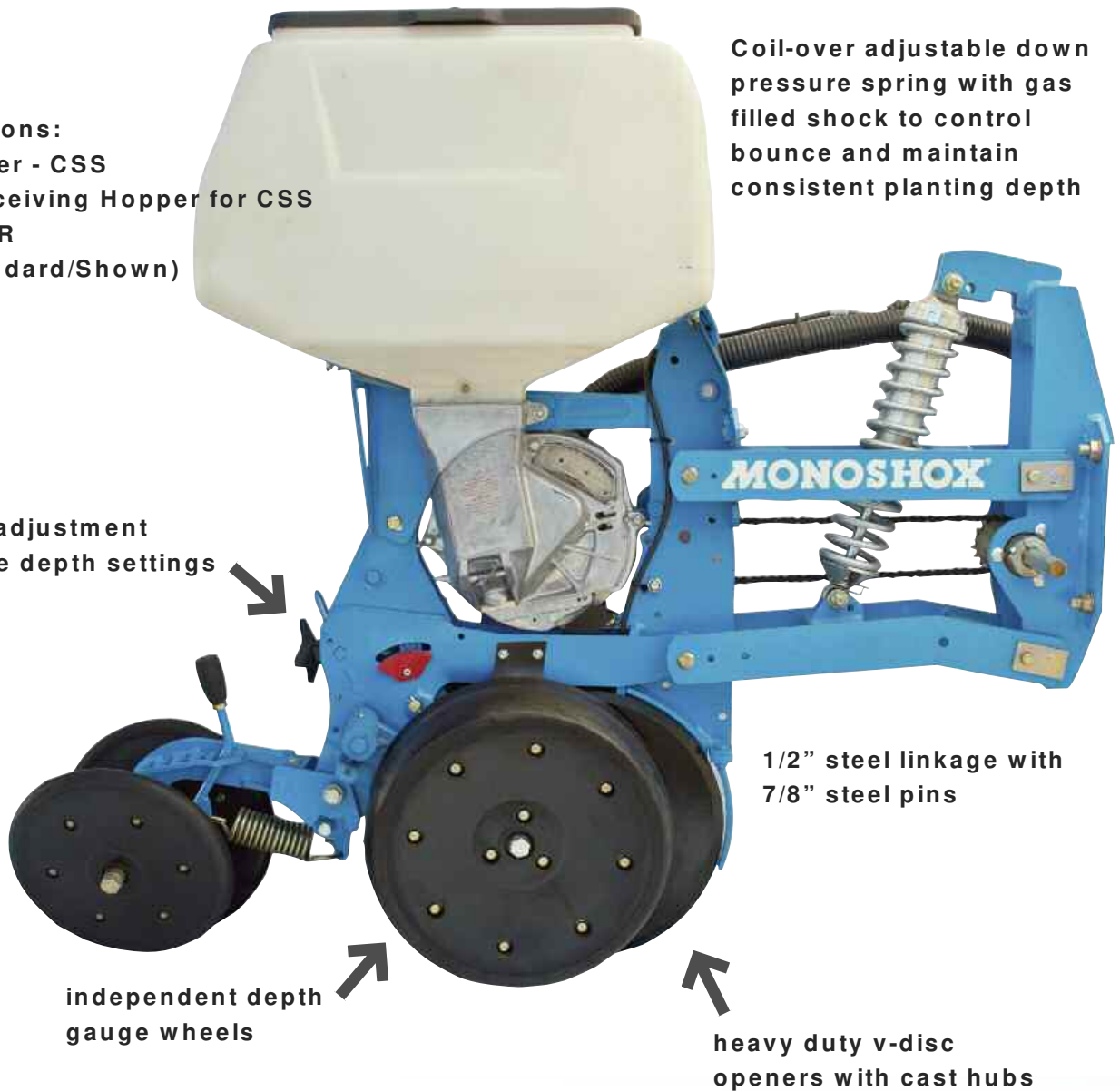
Rugged Heavy Duty Linkage

Hopper options:

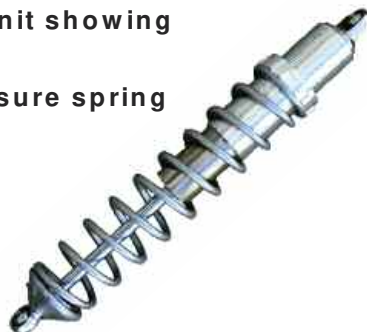
- Mini Hopper - CSS
- 3/4 BU Receiving Hopper for CSS
- 1.5 BU UNR
- 2 bu. (Standard/Shown)
- 3 bu.

Coil-over adjustable down pressure spring with gas filled shock to control bounce and maintain consistent planting depth

threaded adjustment for precise depth settings



coil-over unit showing adjustable down pressure spring



interior racing shock of Monoshox® controls bounce



MONOSEN

No-Till Linkage for Single Row

Hopper options:

- Mini Hopper - CSS
- 3/4 BU Receiving Hopper for CSS
- 1.5 BU UNR
- 2 bu. (Standard/Shown)
- 3 bu.

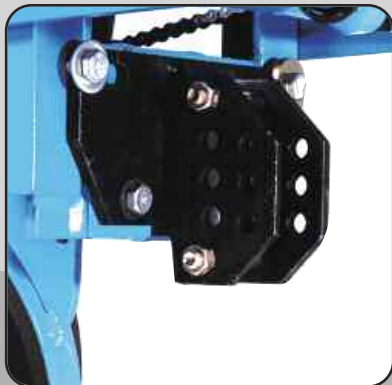
Wide parallel linkage
with adjustable springs

threaded adjustment
for precise depth settings

independent depth
gauge wheels

heavy duty v-disc
openers with cast hubs

standard face plate
accommodates most
unit mounted no-till
or fertilizer
attachments



residue manager
moves residue
improves seed to
soil contact





No-Till Linkage with MONOSHOX® for Single Row

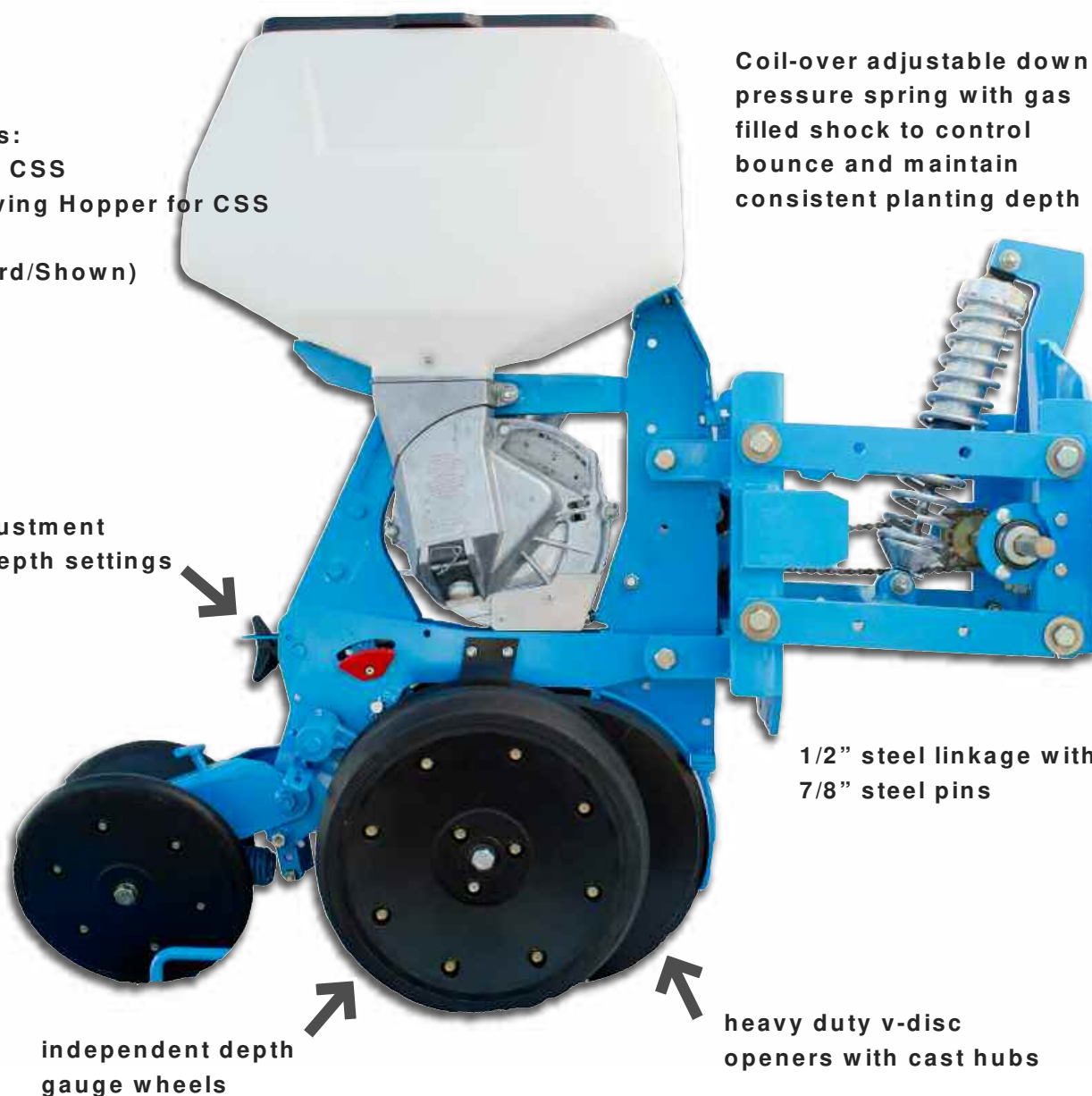
Hopper options:

- Mini Hopper - CSS
- 3/4 BU Receiving Hopper for CSS
- 1.5 BU UNR
- 2 bu. (Standard/Shown)
- 3 bu.

Coil-over adjustable down pressure spring with gas filled shock to control bounce and maintain consistent planting depth

threaded adjustment for precise depth settings

1/2" steel linkage with 7/8" steel pins



no-till coulters

tough residue and soil conditions. several blade choices to fit your soil conditions.



no-till

coulter/residue manager combo

first moves residue in the rows, then cuts an opening for the row unit.





MONOSEM

Mounted Rigid Planters

5x5 Toolbars

3-Row Single Row with Advanced Frame

5x5 Specifications

Available from
2 Row to 12 Row

Row spacing from
12" and up

Options

Row Markers
Adjustable Drive
Wheels
Dry & Liquid Fertilizer
on frame

Linkages Available

Standard
Heavy Duty Down
pressure
Quick Adjust



7x7 Toolbars

6-Row Twin-Row with Double Toolbar Hitch

7x7 Specifications

Available from
2 Row to 12 Row

Row spacing from
12" and up

Options

Row Markers
Adjustable Drive
Wheels
Hydraulic Drive
CSS 50 Bu. Bulk Seed

Linkages Available

Standard
No-Till
Monoshox



7x7 Stacking Planters

for Single Row, Twin-Row and UNR

7x7 Stacking Specifications

Single Row

8 Row 30" to 40"
12 Row 22" to 40"
16 Row 30"
24 Row 22"

Twin-Row

8x2Row 30"- 40"
12x2Row 30"- 40"
16x2Row 30"

Options

Row Markers
Gull Wing
Lift Assist Wheels
Hydraulic Drive
CSS 50 Bu. Bulk Seed

Linkages Available

Standard
No-Till
Monoshox

16-Row Single Row Stacking Toolbar with Monoshox®



12-Row Twin-Row Stacking Toolbar with Central Seed System



MONOSEN

Pull-type Planters

Pull-type Specifications

Available
2 Rows and up

Row Markers
Standard

Twin-Row
Available

Options

Hydraulic Drive
Dry Fertilizer
Liquid Fertilizer

6-Row Single Row Rigid Mounted with No-Till linkage
and dry fertilizer option

Centerflex Pull-Type

for Single Row


Centerflex Specifications

Available
12 Row 30"
24 Row 22"

Row Markers
Standard

Options

Hydraulic Drive
Hydraulic Lock & fold
CSS 100 Bu Bulk Seed
on 24 Row 22"
Liquid Fertilizer



24-Row Single Row 22 with Monoshox®
and liquid options



Narrow Transport

for Single Row, Twin-Row and UNR

Narrow Transport Specifications

Standard Configurations:

Single Row

12 Row 30"

16 Row 30"

24 Row 22"

24 Row 30"

36 Row 22"

48 Row 22"

Twin-Row

12x2Row 30" - 40"

16x2Row 30"

24x2Row 30"*

*Tracks req.

Custom Configurations available including: 12", 15", 20" rows

Options

Row Markers

Tracks

CSS 100 Bu. Bulk Seed

Liquid Fertilizer

16-Row Single Row 30" with liquid fertilizer and CSS

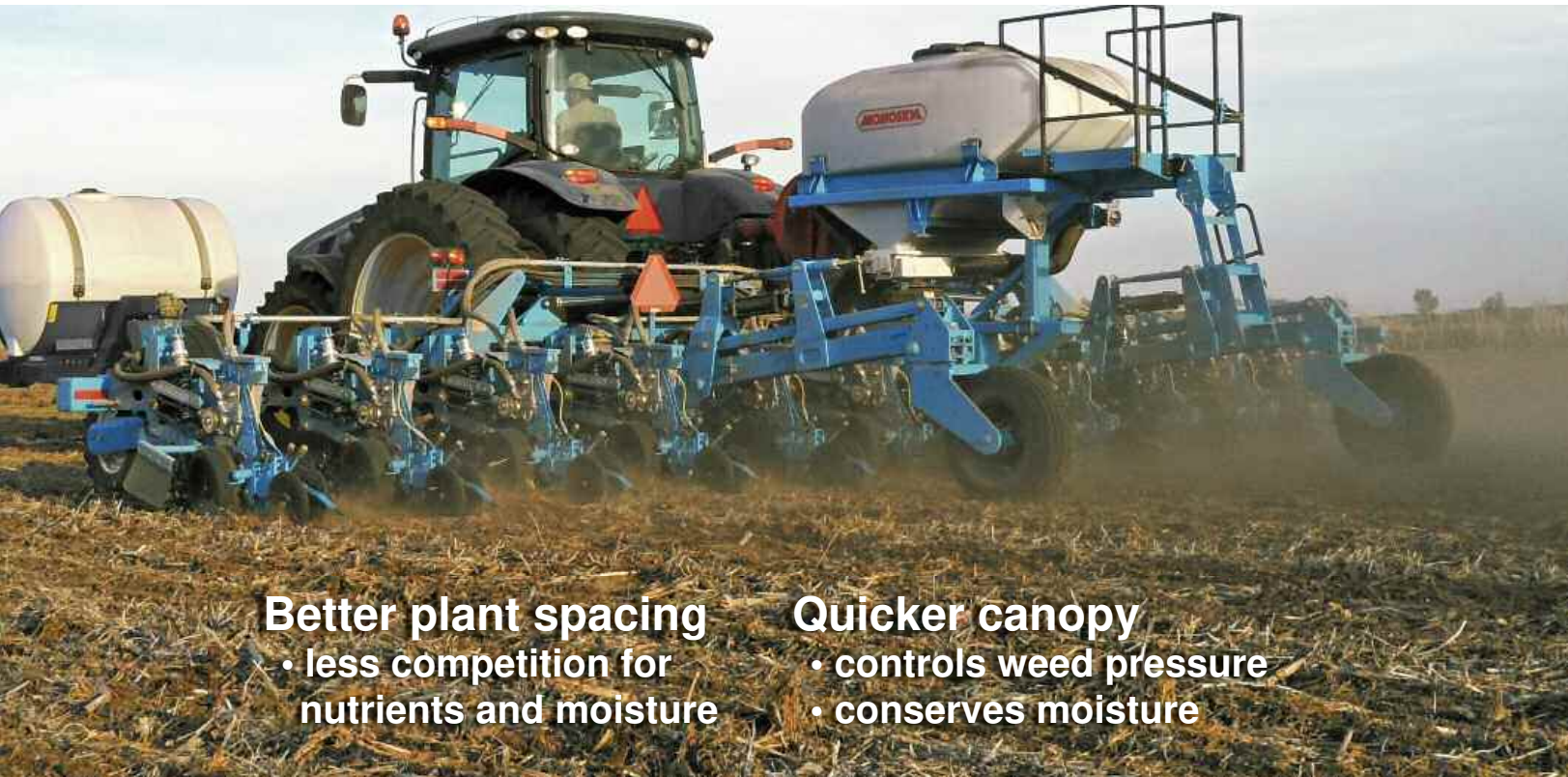
24-Row Twin-Row 30" with Monoshox®, CSS, liquid fertilizer and track options.



MONOSEM

Twin-Row Configuration

Twin-Row Planters available from 4x2 Mounted and Stacking to 24x2 Pull-type Narrow Transport



Better plant spacing
• less competition for nutrients and moisture

Quicker canopy
• controls weed pressure
• conserves moisture

Twin-Row Meter Option

Monosem Seed Stagger Timing System for Twin-Row

Sync-Row®

- 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.





UNR Configuration

**UNR Planters available Rigid, Stacking
and Narrow Transport**



UNR Narrow Transport with CSS

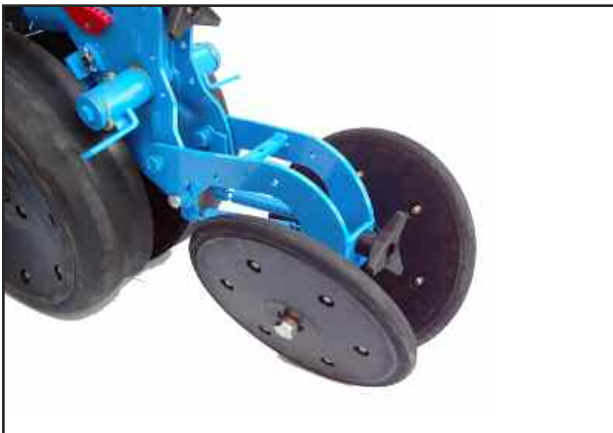
Single Row Closing Wheel Options



V-Press Wheel
screw adjust / rubber closing wheels



V-Press Wheel
t-handle / rubber closing wheels



V-Press Wheel
screw adjust / rubber closing wheels



V-Press Wheel
handle adjust, rubber or cast iron



Flat Press Wheel
with hillers



Flat Press Wheel
with disc closing system

Twin-Row Closing Wheel Options



V-Press Wheel
handle adjust, rubber or cast iron



Flat Press Wheel
with disc closing system

PRO Wheel

A large diameter 12" aluminum press wheel with stainless steel edge.-

The wheel is positioned directly behind the seed tube ahead of the V rear press wheels and limits seed movement after the seed exits the seed tube.

The Pro Wheel's rolling motion & flat surface gently presses the seed into the seed trench for improved seed to soil contact providing optimal germination and consistent plant emergence.-

The Pro Wheel's flat surface also aids in reducing sidewall compaction by breaking down the v trench.- Standard features include a wheel scraper and lockup for adverse conditions.



Row Unit Options

Row Cleaners

For Single Row



For Twin-Row



Row Unit Options

Cast Point



standard cast point



standard cast point
with starter tube



v-slice insert with
starter tube



v-shoe insert

Gauge Wheels shown with optional scrapers



narrow



standard



double

seed tube wind boot



seed tube residue guard



Dry Fertilizer

3-pt Mounted



Pull-type dry fertilizer

includes a heavy-duty double disc opener. Rates are easily adjusted from 40 to 600 lbs. per acre.



In furrow Options

5x5 toolbar mounted fertilizer opener



7x7 toolbar mounted double disc opener



7x7 pull-type double disc opener



Granular Applicator Options

ground driven
worm gear metering
system for accuracy
33 or 50 lb capacity



rear mounted
70 lbs capacity



Seed Monitor



PM 100

basic flow model
with blinking lights

* ISO monitoring

Liquid Fertilizer

3-pt Mounted



Pull-type



Piston pump option



In furrow Options

single disc opener with knife or injector



7x7 notched single disc opener with optional gauge wheel



7x7 double disc opener



Options



CS 3000

selective blinking lights
or bar graph



DICKEY-john® 10" Cab kit

hydraulic drive system control
and monitoring



DICKEY-john® 12" Cab kit

hydraulic drive system control,
monitoring and auto section control

available through ISO virtual terminal



**Monosem Inc. / North America
Heavy Duty Custom Built Planters**

NG^{Plus}4

For Row Crops



MS MiniSeed

For Small Seeds



**Nationwide Distribution and Service with
Manufacturing in Edwardsville, KS and Ithaca, MI**



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

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