



Precision Vacuum Planters



for Row Crops

# New for 2015, Monoshox<sup>®</sup> AIR



## Announcing the new Monoshox Air down force system for Monosem NG+4 with heavy duty linkage.

The Monoshox<sup>®</sup> Air is the latest version of Monosem's field proven Monoshox<sup>®</sup> down force system for smoother planting in all conditions.

The Monoshox<sup>®</sup> Air utilizes the same proven shock absorber and heavy-duty linkage as the original Monoshox, but replaces the coil-over spring down force adjustment with a pneumatic airbag. In the Monoshox<sup>®</sup> Air, down force adjustment is centrally controlled by air pressure that is provided by an on-board compressor system and is controlled by a small monitor mounted in the tractor cab. The air pressure in the Monoshox<sup>®</sup> Air can be adjusted in 1 psi increments from 10 to 100 psi which represents 84-400 lbs. of down pressure, right from the cab.

The Monoshox<sup>®</sup> system uses a high quality, specially valved shock absorber that resists compression, but extends quickly. This allows the row unit to cut through trash and tough spots in the field instead of riding over it. This minimizes row unit bounce and maintains very consistent depth control, resulting in even seed spacing and plant emergence.

Both Monoshox<sup>®</sup> versions work well in all soil conditions, especially no-till and minimum-till. The patented system allows for higher planting speeds than with conventional down force options.



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# New for 2015, Monoshox<sup>®</sup> AIR

Announcing a new version of the Monosem Monoshox<sup>®</sup> downforce system for rough tillage and faster planting speeds, the The Monoshox<sup>®</sup> Air.

The Monoshox<sup>®</sup> Air downforce system utilizes the same great features as the original Monoshox<sup>®</sup> system; a specifically engineered heavy duty linkage combined with measured downpressure and tuned suspension shock absorbers that excel in challenging conditions.

For added versatility and ease of use, the Monoshox<sup>®</sup> Air uses pneumatic airbag downpressure adjustment instead of the coil-over spring used in the original Monoshox<sup>®</sup>. With Monoshox<sup>®</sup> Air, downpressure settings can be adjusted from the cab in increments of 1 psi from 1 to 100 with a cab kit that shows psi reading and a calibration table showing equivalent down force amounts from 84 to 400. This allows quick adjustments for variable soil conditions.

## Background

Originating in Nebraska for planting into cover crops, the Monosem Monoshox<sup>®</sup> downforce system has been successfully put to use in all regions of North America for all types of conditions. The Monoshox<sup>®</sup> system starts with a heavy-duty linkage built around a high performance gas filled shock that features state of the art suspension for off-road racing. Just as the goal in racing is to keep the wheel on the ground for better handling, this suspension on a row unit provides greatly improved ground contact for less bounce and better depth control.

Both standard coil-over Monoshox<sup>®</sup> and Monoshox<sup>®</sup> Air versions of Monoshox<sup>®</sup> provide adjustable down pressure with the dampening of the high performance gas-filled shock.

## Two part system

When going over rough terrain Monoshox<sup>®</sup> maintain measured and consistent downpressure while the interior shock with tuned valving works on both upswing and downswing forces to control bounce.

When hitting rough tillage and rock the compression cycle in the shock resists and dampens upswing and row unit bounce is directly minimized. On the downward rebound cycle, returning to downpressure, impact bounce caused by undampened downpressure is greatly reduced with the dampening effect of the shock but still quick and responsive due to the tuned valving. Similar to off road racing, the ride is more smooth and consistent.

The unique value of the Monoshox<sup>®</sup> and Monoshox<sup>®</sup> Air is controlled downpressure resulting in less overall bounce, better ground contact, and better seed spacing. Also less row unit bounce means more consistent seed to soil contact with more even emergence.

This original patented system is available on custom-built NG+4 Row Crop Planters only from Monosem Inc. North America, on Monoshox<sup>®</sup> and No-Till linkage options.