CENTRAL VALLEY AG | ACS Advanced Cropping Systems

HYDRAULIC DOWNFORCE

Instant Precision for Ideal Seed Depth

Hydraulic downforce systems, like SureForce® from AgLeader and DeltaForce® from Precision Planting, deliver instant, row-by-row responsiveness to changing field conditions—applying or removing pressure as needed to maintain consistent and accurate seed depth. Unlike traditional systems using springs or airbags that can lag by several seconds, hydraulic downforce adjusts in real time, ensuring that every seed is placed precisely where it belongs, even in challenging no-till, compacted, or high-residue environments.

These systems continuously sense and respond to varying soil types, field topography, and planting speeds, eliminating the guesswork from downforce settings. By managing the weight on gauge wheels with precision, they prevent excessive compaction in softer soils while ensuring proper penetration in tougher ground —giving each seed the uniform emergence and ideal start it needs to reach full yield potential.

Precision Planting® | Ag Leader®

Row-by-Row Control for Maximum Yield Potential

Eliminate Yield Loss from Poor Depth

Incorrect down force can cost you — consistent seed depth ensures uniform emergence and strong yield potential.

Automated, Row-by-Row Adjustments

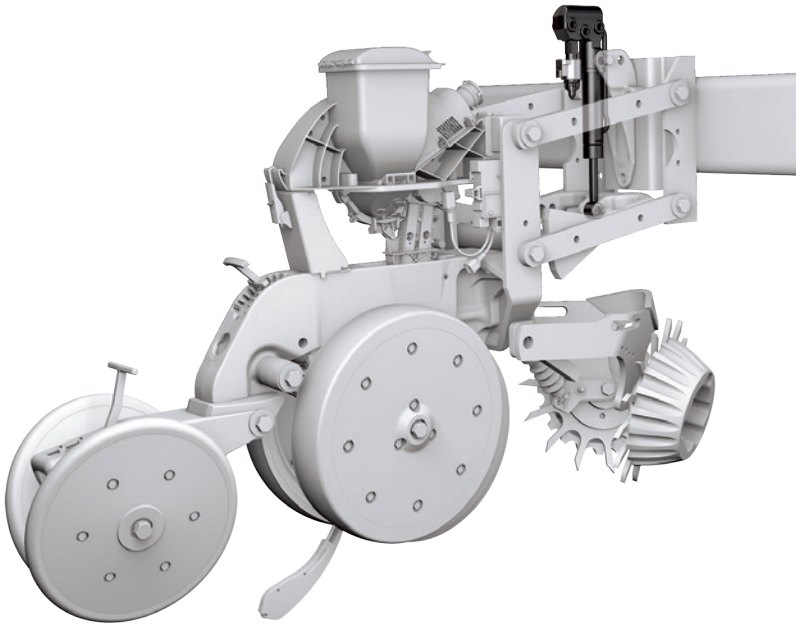
By using sensors and hydraulic cylinders on each row, instantly adjust down force, ensuring every seed is placed at the correct depth.

Eliminates Excess Compaction

Avoid applying too much down force, which can compact the soil and hurt root development— hydraulic downforce ensures the optimal balance.

Maximize Planting Efficiency

Get peace of mind knowing your down force is constantly being monitored and adjusted across the entire planter, not just a single row.



The ultimate goal is to ensure down force is set correctly across the whole field, not just during one row or one point.

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