ExactEmerge™ Row Unit. Accurate at 10 mph. Exactly.

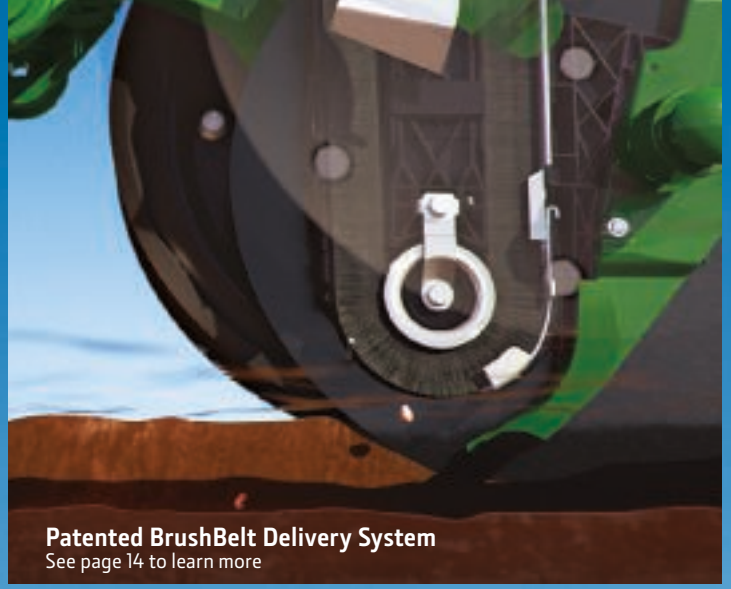
You're used to going five miles per hour; we get that. But ask yourself this: would you still go 5 mph if you could get the same accuracy at ten? Welcome to ExactEmerge. It's about accurate singulation, population, spacing, and uniform depth … all at 10 miles-per-hour.

More importantly, it's about addressing your needs. Like the need to plant the hybrid that's precisely singulated and best suits your field conditions. Our high-performance meter steps up to the challenge. With the ability to handle a variety of kernel sizes or shapes with no mechanical adjustments, this improved meter with a new poly-tine doubles eliminator gives you new levels of performance that deliver with precision. Updated concave design allows the meter to gently transfer seed to the new BrushBelt™, enabling a crisp handoff to the delivery system. While the doubles eliminator accurately singulates your seed for singulation at its finest.

Also, you need your population to hit the target mark. So we designed an electric drive motor with precise control on each meter to deliver the target population. And the meter is able to do its job thanks to the newly designed seed bowl. Since the vacuum pickup is now at the bottom of the seed puddle, gravity is in your favor. Once the seed is singulated, the paddle follows it around to push the seed out of the puddle without seeds falling off. It's why we're confident your population will be spot on.

How about the need for accurate spacing and consistent depth at high planting speeds? That's where we say 'hello' to the patented BrushBelt, and 'goodbye' to the seed tube. The BrushBelt tightly holds the seed from the meter and keeps the seed-to-seed relationship through the delivery system firm and consistent. Then the seed is speed matched to the ground, which allows the seed to be placed gently at the bottom of the trench without traditional bounce and roll found when planting at higher speeds, whether you're in flat ground or steep hills.

This is exactly what you've asked for: greater productivity. And that's what ExactEmerge is … a planter that merges speed and accuracy.



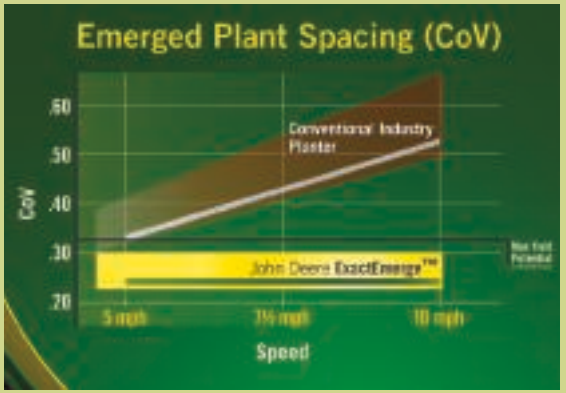
Patented BrushBelt Delivery System
See page 14 to learn more

Widen those narrow planting windows

Accuracy is one thing, but there's another significant advantage to the ExactEmerge row unit. When you can plant at 10 miles per hour, your narrow planting window isn't so narrow anymore.

Why is that important? Because your rate of loss accelerates greatly after the optimum window has passed. This is especially true the further north you live in the U.S. With a high-speed planter, you can avoid missing that peak planting time, thereby helping to increase your chance to get the highest crop yields.

No more multiple shifts. Fewer long work days. And no more additional help to get the crop in on time. Even the stress of needing a favorable 5-day forecast is lessened. Now if a storm's expected, ExactEmerge allows you to push the throttle so you can be more productive in shorter weather windows.



We measure and monitor seed spacing as CoV, or Coefficient of Variation. The lower the CoV number, the higher the spacing accuracy, and the greater the yield potential.

The building blocks of a revolution

No matter what you're designing, it won't stack up without a strong foundation. ExactEmerge wasn't built on speed alone. It was built on a firm principle – the idea that your singular objective is to achieve accurately spaced uniform emergence that will grow profit. So we addressed that belief, piece by piece, to create a planter that would redefine productivity and uptime.

ExactEmerge™ models and configurations			
1725NT	· 8R30		
1725C	· 12R36	· 12R38	· 12R40
1725CCS	· 16R30		
1775NT	· 12R30	· 16R30	· 24R30
1795	· 23/24R15	· 31/32R15	· 24R20
DB44	· 24R22		
DB60	· 24R30	· 36R20	· 47/48R15
DB66	· 36R22		
DB80	· 32R30	· 48R20	
DB88	· 48R22		
DB90	· 36R30		

Dual Electric Motors

The ExactEmerge electric drive system is powered by two brushless, maintenance-free motors on each row unit that work independently to control the meter and the BrushBelt - with no synchronization required. Compared to standard brush motors that generate friction and heat buildup, our motors run more efficiently and provide longer life. The motors operate off of ground speed to provide accurate target population and speed-matching seed delivery.

BrushBelt™ Delivery System

This patented technology delivers seed to the bottom of the trench at a rearward trajectory that truly matches the ground speed of the planter at any desired population. This gives you precise seed placement with no bounce as can be found in some seed tubes, and no roll in the trench, whether you have corn or high-rate soybeans. Brush bristles gently cradle the seed on all sides with full control to deliver each seed to the bottom of the trench, even in rough planting conditions, so there's no degradation to in-ground spacing accuracy. And a BrushBelt conditioner at the bottom of the delivery system is self-cleaning to shed any dust from the BrushBelt.

Seed Sensor

Provides every vital bit of information for each seed that travels through the BrushBelt delivery system: population, seed spacing, seed singulation; it's all gathered here and then delivered to the new SeedStar™ 4HP monitoring system.

Tractor Power Generation

Thanks to tractor power generation, you won't need batteries on your planter. You'll appreciate that in the off-season when you don't have to stress over the care and maintenance of your batteries. But it's not just that. Tractor power generation is a more efficient system that doesn't require hydraulics, which helps eliminate the hydraulic need on the tractor by allowing PTO to generate planter power. As an added benefit, the feature is easy to install and simple to remove. Available as an option on specific ExactEmerge planters, and is required for both ExactEmerge and MaxEmerge 5e retrofit kits.

Power Generation System

Exclusive 56-volt system offers the most voltage in the industry, greatly reducing the amps needed per row compared to lower voltage systems.

Improved Shank

Faster planting speeds mean more shock load and stress. So we strengthened the row unit shank to withstand additional force and impact without fracturing, regardless of planting conditions. And an enhanced gauge wheel arm provides greater wear life.

Downforce Options

What's your preference? Go with active pneumatic downforce and ensure that every row unit maintains the necessary ground contact when planting at 10 mph, helping to achieve uniform depth for even emergence. Or try individual row hydraulic downforce. With it, in under a second, you can witness a hundred pound change in downforce – on a row-by-row basis – to ensure you're getting the depth needed for your specific soil conditions.

Rigid Concave Seed Bowl

Singulates the increased seeds-per-second at higher speeds. Bowl paddles associated with each seed hole provide a smooth, crisp handoff to the BrushBelt without any assistance from secondary features. This is all due to the bowl-shaped design, which allows the seed puddle to remain half way in the bowl. And with the pickup at the bottom of the bowl – along with an assist from gravity – seed is pulled down freely and without complication when planting faster. So why is all of this important? With a flat disk the seed puddle leans against the disk and the vacuum has to pull the seed sideways, while dragging it through the puddle. So, essentially, you have three forces working in opposition: 1) gravity is trying to pull the seed down, 2) the vacuum is trying to pull seed toward the disk, and 3) the seed in the puddle is pushing 90 degrees toward the vacuum. Do the math and what you come up with is a bad combination when you're increasing the seeds-per-second.

High-Performance Vacuum Meter

Our high performance meter lets you use a variety of seed shapes and sizes, all at once, and with no mechanical adjustments – like refuge in the bag. Use whichever seed you prefer without any hesitation or sacrificing of your hybrid selection. Plus, the vacuum meter maintains a target population even over terrain with slopes up to 15 degrees.

Mini-Hopper Design

Straight inlet design of the CCS hose into the mini-hopper replaces the elbow-style setup to prevent potential plugging.*

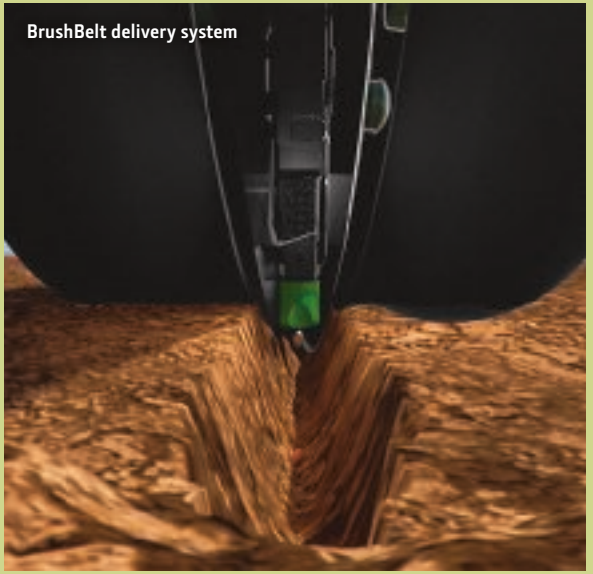
** Rear rank on the 1795 will still have the elbow for prevention of pugging when the rank is raised.*

Polytine Double Eliminator

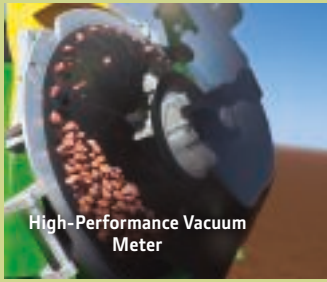
Precise singulation is gained as the tines of this redesigned double eliminator sweep extra seeds away from entering the BrushBelt. This upgraded feature needs no fine-tuning for added convenience and handles higher planting speeds.

Row Unit Controller

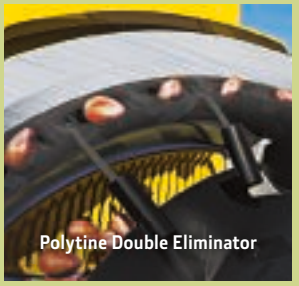
Calculates how fast the electric motors should turn and captures data from the sensors – seed, downforce, ride quality, and row vacuum on the respective rows. The information from each unit controller is sent to the Meter Master Controller.


BrushBelt delivery system


Seed Sensor


High-Performance Vacuum Meter


BrushBelt system eliminates seed bounce


Polytine Double Eliminator


Crisp hand-off to the BrushBelt


Gentle seed handling all the way from the meter to the trench


Dual Electric Motors


Improved Shank with enhanced gauge wheel arm