

Your Planter, UPGRADED

PRECISION UPGRADES

Planting season comes with real challenges — narrow and unpredictable windows, the pressure to achieve uniform stands, and rising input costs. Precision Upgrades from John Deere are designed to help you tackle all of it, so you can make the most of your yield potential, inputs, and time in the field.



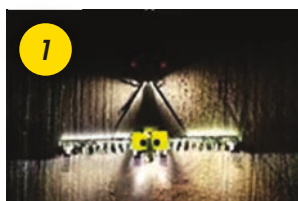




PLANTER UPGRADE KITS

These planter upgrades help you work smarter, not harder by boosting efficiency, reducing input costs, and arming the operator in the cab with tools to improve planting quality, which ultimately leads to better crop stands and yields.

See what your planter could be.
Scan here.



Ultimate LED Lighting

Extend working days into night by providing improved visibility beyond the ends of the planter to better detect obstacles, plugs, and more.



Ultimate Planter Upgrade

Boost your planter's productivity and reliability with new ExactEmerg™ or MaxEmerg™ 5e factory built row units and replace wear parts like gauge wheels, parallel arms, and closing wheels.



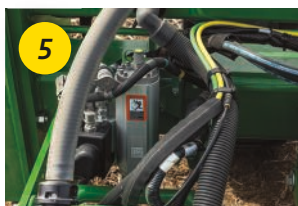
Meter Upgrades

Find flexible solutions that work with your existing iron — no new shanks, parallel arms, or gauge wheels required.



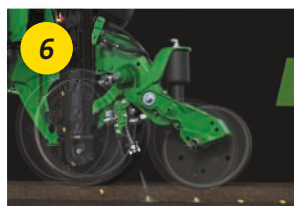
Easy Adjust Row Cleaners

Make on-the-go adjustments from the cab with the push of a button for wet areas, waterways, or end rows.



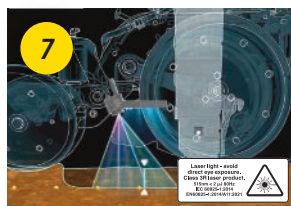
Individual Row Hydraulic Downforce (IRHD)

Obtain peak planting performance at high speeds with 5 times per second adjustments to ensure consistent planting depth and optimal seed-to-soil contact.



ExactShot™

Promote early root development and save on fertilizer cost by delivering a dose of starter fertilizer to the seed and surrounding area compared to a steady consistent flow in the row.



FurrowVision™

Measure seed depth and view the planting trench with FurrowVision. Save time and keep running when you can verify accurate planting depth right from the seat of your cab.



ExactRate™ Liquid Fertilizer System

Offered in 2x2 or in-furrow configuration, ExactRate applies nutrients at the time of planting with individual row shutoff and curve compensation.



Pneumatic Closing Wheels

Improve seed-to-soil contact for uniform emergence and better yield potential by adjusting the closing wheels in just seconds and providing consistent closing in rough field conditions.



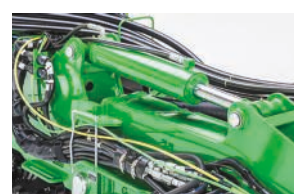
Yetter Twister Closing Wheels

Optional closing wheels ensure consistent trench closure by breaking up the side wall with the center ring design of Yetter twister closing wheels.



ExactChem™

ExactChem is an integrated granular insecticide upgrade designed specifically for John Deere electric drive planters. It gives you more flexibility, more accuracy, and more time savings.



Frame Weight Distribution

Reduce compaction in the center section of CCS planters by redistributing weights to the wings to increase downforce on each row unit.

ELECTRIC DRIVE PLANTING TECHNOLOGY

The right metering system is the foundation of every productive planting season. John Deere offers two electric drive options — ExactEmerge™ and MaxEmerge™ 5e — each engineered to deliver better accuracy, fewer input losses, and more confidence in the cab.

Both the Ultimate Planter Upgrade and Meter Upgrade kits include SeedStar™ 5 for most configurations¹. Monitor seed population, singulation, spacing, and ride quality in real time on the G5 Display. SeedStar 5 connects your planter to the full John Deere Precision Technology ecosystem, including AutoPath, AutoTrac Turn Automation, and Operations Center. Spend less time setting up and more time planting.

ExactEmerge™

Built for speed without sacrifice. Dual 56v electric motors on every row power BrushBelt™ seed delivery for precise seed placement and a picket fence stand — reducing bounce and roll for uniform emergence. A high-performance vacuum meter improves singulation, while individual row shutoff saves up to 2-4% on inputs⁴. The result: up to 20% better population accuracy², up to 7% higher soybean survival³, and the ability to plant accurately at speeds up to 10 mph (16.09 km/h).

ExactEmerge™ Ultimate Planter Upgrade



ExactEmerge™ Ultimate Meter Upgrade



MaxEmerge™ 5e

Versatile, reliable, and maintenance-free. Single 56v electric motors on every row drive seed tube delivery across more than 17 compatible crops — maintaining population accuracy around curves and through variable rate planting at speeds up to 5 mph (8.05 km/h). With up to 20% better population accuracy², individual row shutoff that saves up to 2-4% on inputs⁴, and a maintenance-free design with no chains or sprockets, MaxEmerge™ 5e delivers 1-2% yield potential improvement⁵ with less downtime.

MaxEmerge™ 5e Ultimate Planter Upgrade



MaxEmerge™ 5e Ultimate Meter Upgrade



UPGRADE KITS

Already own a John Deere planter? You can update your existing equipment. Choose from two options to best fit you and your operation.

Ultimate Planter Upgrade

Best for: Farmers with older planters (model year 2005+) who want like-new performance without buying new.

The Ultimate Planter Upgrade replaces worn row-unit components with new, factory-built row units—delivering like-new performance, restored reliability, and the latest planting technology on your existing planter bar, at a lower cost than purchasing a new ExactEmergetm or MaxEmergetm 5e planter. Each upgrade includes a new shank, parallel arms, metering system, downforce system and SeedStar 5 monitoring system.

CUSTOMIZABLE ADD-ONS:

- Individual Row Hydraulic Downforce or Active Pneumatic Downforce
- ExactRate[™] or ExactShot[™] liquid fertilizer system
- ExactChem[™] granular insecticide
- Easy Adjust pneumatic row cleaners
- Pneumatic closing wheels
- Ultimate LED lighting
- FurrowVision[™]

COMPATIBILITY:

- 1700/05, 1720/25 (CCS and non-CCS), 1750/55, 1770/75NT (Flex, CCS, and non-CCS), and 1790/95; model years 2005 and newer
- DB44 up to DB90, model years 2012 and newer

Meter Upgrade

Best for: Farmers with newer planters (model year 2015+) whose row units and wear parts are still in good condition, and who want to improve planting accuracy at the lowest upfront cost.

Keep your existing row units and upgrade only your metering system to factory-standard ExactEmergetm or MaxEmergetm 5e. A targeted, lower-cost path that modernizes your planter with SeedStar[™] 5¹ and reconnects you to the full suite of John Deere Precision Technology — with less clutter in the cab. No need for new shanks, parallel arms, or gauge wheels. Available upgrade paths:

START >>	UPGRADE TO	Benefit
MaxEmergetm 5 <i>Mechanical or Hydraulic</i>	MaxEmergetm 5e	Saves on inputs, reduces maintenance, increases accuracy
MaxEmergetm 5 <i>Mechanical or Hydraulic</i>	ExactEmergetm[™]	Saves on inputs, reduces maintenance, increases productivity and accuracy
MaxEmergetm 5e <i>Electric</i>	ExactEmergetm¹	Saves on inputs, reduces maintenance, increases productivity and accuracy

COMPATIBILITY:

- 1700/05, 1720/25 (CCS and non-CCS), 1750/1755, 1770/75NT (Flex, CCS, and non-CCS), and 1790/95; model years 2015 and newer
- DB44 up to DB90, model years 2015 and newer

Crop Compatibility Chart

The following chart shows crop compatibility for John Deere Planters

	Corn	Soybeans	Cotton	Edible Beans	Popcorn	Sorghum (milo)	Sugar Beet	Sunflower	Sweet Corn	Canola	Cucumber	Melons	Peanuts	Peas	Pumpkin	Squash	Wheat
MaxEmergetm 5e	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ExactEmergetm[™]	✓	✓	✓	✓	✓	✓	✓	✓	✓								

✓ Available

¹MY22-MY24 row units may choose to retain SeedStar 4 if upgrading from MaxEmergetm 5e to ExactEmergetm.

²As compared to non-curve compensated planter. John Deere internal study, Illinois.

³Darr, M., Bergman, R. High Speed Planting Technology. Iowa State University Extension and Outreach, Integrated Crop Management. 2020 March 13. <https://crops.extension.iastate.edu/cropnews/2020/03/high-speed-planting-technology>

⁴Based on average savings across 21 fields in an internal study comparing a 60-ft (15.24 m) 24R MaxEmergetm 5e planter versus a ground drive planter with mechanical shutoffs. Seed savings will vary depending on field shape and conditions.

⁵Internal John Deere comparison between MaxEmergetm 5e row units and components with original MaxEmergetm row units and components.

SeedStar™ 5 Monitoring System

Every upgrade — Meter Precision or Ultimate Planter— includes SeedStar 5, the latest John Deere monitoring system for planters. Data moves as fast as you do with 400% faster data flow to your cab. Know what's happening in every row, instantly.

Paired with a G5™ Display and your implement ethernet, SeedStar 5 delivers:

- 400% faster data flow to your cab vs. previous model (1 Hz → 5 Hz)¹
- High-definition, row-by-row planting data in real time
- Quick, real-time adjustments from the cab for uniform emergence
- Field data maps you can view and share in John Deere Operations Center™

¹Data speed increased from 1 Hz to 5 Hz vs. the previous model.

NEW

Fertilizer Upgrades

ExactShot

- Save up to 66% of in-furrow nutrient input²
- Switch between Dosing and Continuous mode from cab
- Apply nutrients directly on seed where they are used most efficiently
- In-furrow option only
- Easy to setup, monitor, and change rates using G5 Display
- Option to convert an existing ExactRate system to ExactShot

²Based on internal tests of a prototype ExactShot system performed across 21 farms in six Midwestern states applying a 5.1-cm (2-in.) dose on seeds with 15.2-cm (6-in.) in-row seed spacing.

COMPATIBILITY:

- 1770/75NT CCS, 1790/95, DB44 to DB90 up to 36 rows
- ExactEmerge or MaxEmerge 5e
- Must have or upgrade to SeedStar 5

Please see Ag Sales Manual for more details around compatibility requirements for ExactShot and ExactRate upgrades. Electric drive row units are required to operate ExactShot or ExactRate fertilizer upgrades. ExactShot is not compatible with planters using FurrowVision.



ExactRate

- Average of 4.3% (up to 12%) reduction in input (fertilizer)²
- Performance up to 10 mph (16.1 km/h)
- Variable rate prescriptions
- Turn compensation
- Row-by-row section control
- Flow detection
- As-applied documentation
- In-furrow or 2x2 application methods available

COMPATIBILITY:

- 1770/75NT CCS, 1790/95, and DB44 up to DB90; model years 2018 and newer

²Runge, Max, et al. "Automatic section control technology for row crop planters." Extension Alabama A&M & Auburn Universities ANR-2217, Oct. 2014. <https://www.aces.edu/blog/topics/crop-production/automatic-section-control-technology-for-row-crop-planters/>

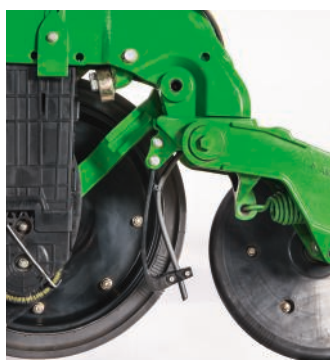
ExactChem

- Granular electric-drive insecticide solution
- Compatible with electric meter systems
- Precise single-product rate control
- Dispensing at rates of 1.1 – 13.1 lb/acre (1.23 – 14.68 kg/ha)
- Planting speeds of 1.2 – 10 mph (1.93 – 16.09 km/h)
- Row-by-row section control
- Easy set-up and calibration via comfort of cab



COMPATIBILITY:

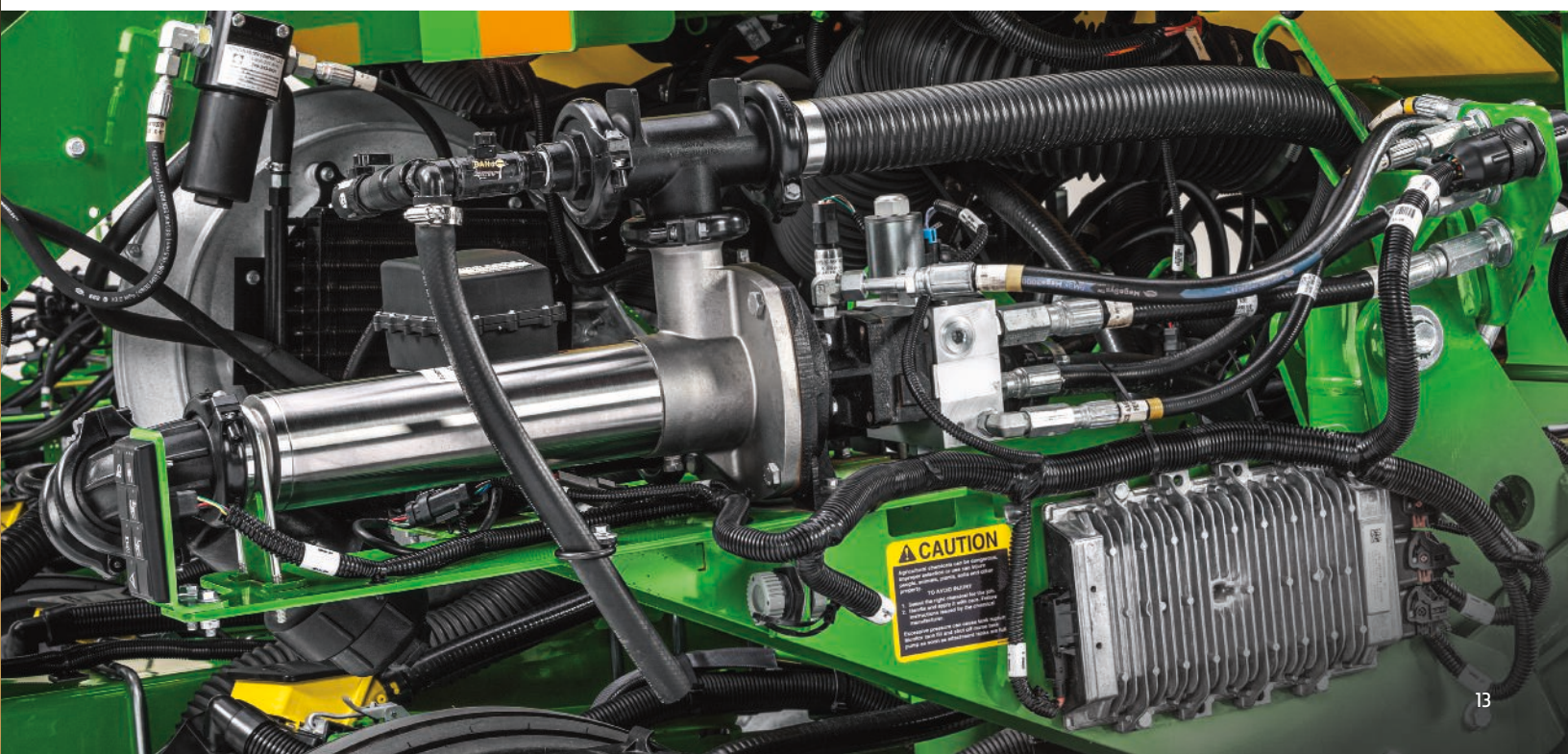
- 1775NT – 12R, 16R, and 24R/30
- 1720/1725C – 12R/30, 12R/36, 12R/38, 12R/40
- DB60 – 24R/30
- Not Compatible with ExactShot, FurrowVision, DB60 Tracks, or 2.7/3.0 bu hoppers
- SeedStar 4 or SeedStar 5
- Gen4 or Gen5 Display



In-furrow application



Frame mounted fertilizer opener
(sold separately)



NEW

Precision Technology

Downforce Automation Powered by FurrowVision™

Downforce Automation is designed to achieve uniform emergence by maintaining the correct planting depth and reducing furrow collapse. Easy to use, this feature automates adjustments for various field conditions, simplifying the process and allowing you to stay in the cab. It accounts for ground contact and soil resistance to effectively optimize downforce.

Please see your local John Deere Dealer for more details around compatibility and requirements for FurrowVision upgrades. Compatibility subject to change.

COMPATIBILITY

- 1775NT, 12R30, 16R30, 24R30
- 1795, 23/24R15, and 31/32R15 (front rank only)
- DB44, 24R22
- DB60, 24R30, 36R20, 47/48R15 (front rank only)
- DB66, 36R22
- DB80 32R30
- DB80 48R20
- DB88 48R22
- DB90 36R30
- DB90 54R20

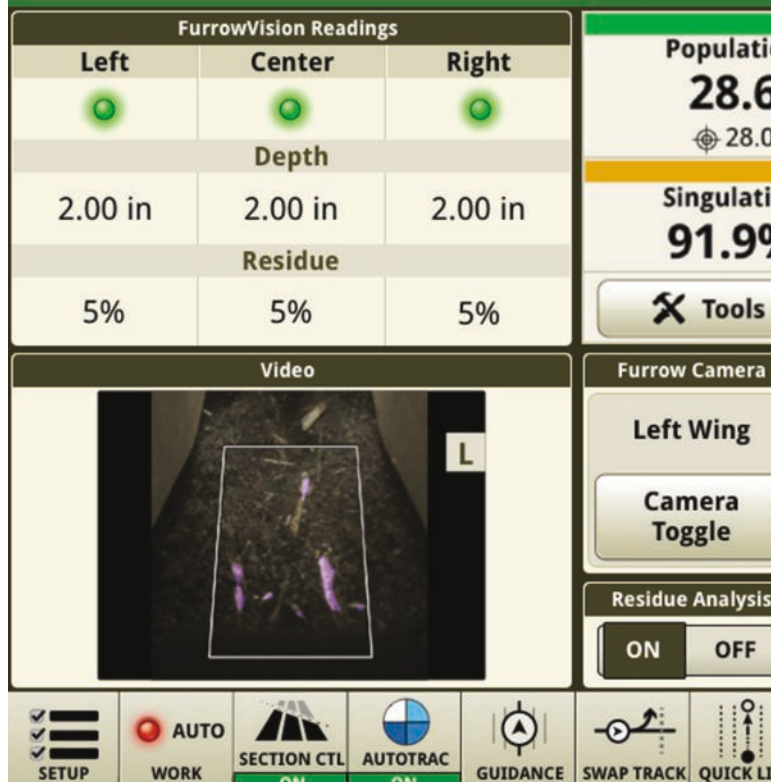
Requirements:

- Must have, or upgrade to, SeedStar 5 planter monitoring software
- G5 display and implement ethernet
- Not compatible on machines with ExactShot installed
- Not compatible with seed firmer or in-furrow press wheels
- Designed for crops planted deeper than 1 in. (2.54 cm) seeding depth

FurrowVision

A simple yet profound solution to optimizing your yield, FurrowVision™ technology allows you to see how your seed is being planted – without the need to stop and check seed depth or trench quality. It provides near real-time metrics on depth, residue, and furrow condition, boosting productivity and confidence in planting quality while you save time during tight planting windows. Equipped with three in-furrow cameras, it offers a sectional view of the furrow and depth measurements, ensuring optimal planter performance.

FurrowVision



Compaction Management Upgrades

Frame Weight Distribution

- Redistributes weight to wings where it can be used to increase downforce on row units
- Reduces compaction in center section of CCS planters
- Factory-ready solution available for planters that chose the “less” option when ordering from factory
- Bolt-on solution available for planters that did not have a Frame Weight Distribution option when ordered from the factory

COMPATIBILITY:

- 1770/75NT, model years 2005 and newer
- Factory-ready 1775NT 24R30 kits for model year 2016 and newer planters; bolt-on solution for model years 2005-2015
- 1790/1795 31R15 and 32R15, model years 2005 and newer
- Kits only available for 31R15 and 32R15 models
- DB60, model years 2017 and newer; factory-ready kits



PRODUCTIVITY AND CONVENIENCE

Ultimate LED Lighting Kit

- LED lights match the color temperature used in the lighting for Premium and Ultimate Visibility packages on John Deere tractors
- Lights mounted on the front hitch to fill the area between the tractor and planter with light, accommodating tractors that may not have enough lighting to fill this void
- In-tank mounting for full tank illumination for seed level monitoring

- Added illumination under the bar on each row-unit for better detection of obstacles, plugs, and more¹
- Added illumination to the ends of the planter bar for better visibility around the entire machine¹
- Robust rear lighting enables in-field planting quality audits and in-cab monitoring
- Improved visibility during row-unit service¹

COMPATIBILITY:

- 1770/75NT and 1795, model years 2005 and newer
- DB planters, model years 2012 and newer

¹ Compared to a planter without LED lights

Color Coded Hydraulic Grips

- Easily connect planter hydraulics to proper tractor ports
- Aluminum handles with John Deere logo and extend/retract icons etched into metal



Central Commodity System (CCS) Conversion Kit

- 55 bu (1,938 L) CCS tank
- Only available for 12- and 16-row 1720/25 non-CCS kits adding electric drive row-units

Hoppers

- 1.6 bu (56.38 L) for ExactEmerge and MaxEmerge 5e upgrades
- 3.0 bu (105.72 L) for MaxEmerge 5e upgrades
- 2.7 bu (95.15 L) for ExactEmerge upgrades



DOWNFORCE

Individual Row Hydraulic Downforce (IRHD)

- Increase even plant emergence due to increased contact of the row unit to the ground¹
- Consistently place seed at desired depth regardless of soil conditions
- Closed loop downforce system reacts quickly on an individual row basis to changing soil conditions
- Adjusts up to five times per second
- 58% faster than pneumatic systems³
- Compatibility: Electric Drive Planters
- Existing Gen 1 IRHD Systems can be upgraded to Gen 2

¹ Compared to a planter without LED lights

² Doerge, T., Jeschke, M., and Carter, P. Planting outcome effects on corn yield. Crop Insights, Vol. 25, No. 1. DuPont Pioneer.

³ Compared to pneumatic system. John Deere internal study, Illinois.



Active Pneumatic Downforce

- Maintains margin set from display across sections of planter rows
- Uses air bags to increase/decrease pressure on sections of planter rows

CLEANING AND CLOSING

CLOSING SYSTEMS

Pneumatic Closing Wheels

- Improve seed-to-soil contact for uniform emergence and better yield potential
- Adjust settings in seconds from the cab
- Operators are notified when closing pressure is not met, unlike spring systems
- Available as part of Ultimate Planter Upgrades or as a modular upgrade

Mechanical Closing Wheels

- Manually set using handle on each row



ROW CLEANERS

Easy-Adjust Row Cleaners

- Helps keep furrow free of debris
- Adjustable from display while planting
- Pneumatic up and down pressure
- Three presets for different field conditions
- Available as part of Ultimate Planter Upgrades or as a modular upgrade

CLOSING WHEEL OPTIONS

Rubber Closing Wheels

- Standard closing wheel from factory

Cast Iron Closing Wheels

- Heavier wheel for more aggressive soil contact

Yetter Twister® Closing Wheels

- Break up soil compaction
- Rounded center-ring design ensures consistent trench closure