



4900 Front Fold Planters: Standard & Optional Features

Feature/Option	Descriptions	12R 30	16R 30	24R 30
Planter Frame/Toolbar				
Frame Style	Semi-mounted/pull-type; 3 section frame; front fold.	S	S	S
Toolbar	7" x 7" toolbar.	S	S	S
Flexibility	21 degrees up / 21 degrees down at each wing.	S	S	S
Industrial-Grade Hydraulic Cylinders	Superior reliability over ag-grade cylinders.	S	S	S
Row Markers	Low-profile, three-fold, break-away markers with 16" diameter solid concave blade with cast iron 4-bolt hub and metal depth band on blades.	O	O	O
PTO Hydraulic Package	Includes pump, reservoir, cooling fan, mounting brackets, hardware, hoses and components specific to 4900 planters. Contact GnL Engineering (319-227-7222 http://gnlengineering.net) or Row Manufacturing (800-544-4123 www.rowemfg.com) for tractor pump mount requirements	O	O	O
Hydraulic Lift System	Master/slave rephasing with assist cylinders.	S (4 master; 2 slave)	S (4 master, 4 slave)	S (4 master, 4 slave)
Catwalk Option	Include catwalk, mounting brackets and hardware required for bulk fill machines equipped with or without granular chemical hoppers.	S	S	S
Flip Axle	Reduces planter turning radius by 4.75'	---	---	S
Hydraulic Weight Transfer	Keeps wing row units in the ground. Reduces potential pinch row compaction on the center section.	S	S	S
Wings	# of rows per wing.	3	5	8
Tongue/Hitch	2 Pt Hitch	O	O	O
	Drawbar Style. Includes telescoping, hydraulically operated drawbar hitch; height adjustable single clevis; hydraulic cylinder, required hoses/fittings and safety chain (40,500 lb rated 1/2" chain)	O	O	O
Tires (center) -Transport & Field Operation	12R: 255 - 70R 22.5, Load Range "H", tubeless rib implement	S (4)	---	---
	16R and 24R: 41" x 11" R 22.5, Load Range "H", tubeless rib implement	---	S (4)	S (4)
Tires-Wing/Lift	12R and 16R: 7.5" X 20" 8 Ply rib implement tires (# of tires per wing)	S (1)	S (2)	---
	24R: 41" x 11" R 22.5", Load Range "H", tubeless rib implement	---	---	S (2)
Seed Handling				
Row Unit Seed Hoppers	1.9 bu. or 3.0 bu. capacity. Cannot use 3.0 bu hoppers with granular chemical	O	O	O
Bulk Fill Seed Hoppers w/Air Seed Delivery	2 centrally mounted 45 bu. seed hoppers for 90 bu. total capacity. Includes seed manifold, hydraulically operated fan with hoses, mounting brackets and fittings.	O	---	---
	2 centrally mounted 60 bu. seed hoppers for 120 bu. total capacity. Includes seed manifold, hydraulically operated fan with hoses, mounting brackets and fittings.	---	O	O

Feature/Option	Descriptions	12R 30	16R 30	24R 30
Seed Handling (cont'd)				
Bulk Fill Mini Hoppers	Includes 4000 series 0.18 bushel mini hopper required for bulk fill planters. Hopper, lid and difuser included	S (w/bulk fill)	S (w/bulk fill)	S (w/bulk fill)
Bulk Fill Seed Hopper Scale Package	Accurately measures seed levels for each variety and exact acres	O	O	O
Transmission/Drive System				
Ground Contact Drive	4.80" x 8" spring-loaded ground contact drive tires (# of tires per wing). Two end-mounted, quick-adjust with #40 chain transmissions.	O (1)	O (2)	O (2)
Electric Drive	Electric motors on each row to drive the seed meters.	O	O	O
Monitors & Control				
KPM III Electronic Seed Monitor	Includes LCD monitor with mounting brackets and hardware, power cable w/adapter, harnesses, tie wraps and seed tube brush. Comes with Magnetic or Radar Distance Sensor. Capable of monitoring population, ground speed, area counters, bulk fill scale, singulation (skips and doubles).	O	O	O
ISOBUS Electronics Package	Planter monitor and control via the ISOBUS standard. Capable of monitoring population, ground speed, area counters, bulk fill scale, singulation (skips and doubles), clutch control, hydraulic drive, section control, prescription rates, fold control, marker control, fan control, work lights, transport lights, fertilizer rate control, fertilizer flow indicators, down force control.	O	O	O
ISOBUS Advanced Electronics Package	Electric meter drive ISOBUS control package. Capable of monitoring population, ground speed, area counters, bulk fill scale, singulation (skips and doubles), section control, prescription rates, fold control, marker control, fan control, work lights, transport lights, fertilizer rate control, fertilizer flow indicators, down force control, electric meter drive, turn compensation, electric insecticide, insecticide flow indicators, remote depth adjust.	O	O	O
Raven Viper 4 Display	Sleek design with large LED touchscreen backlit display and intuitive tablet-like interface specifically tailored to work with and control the 4900 planter; allows for continuous view of critical planter functions, including the coverage map; customizable screen with "touch and move" widgets to display desired icons and information; 30 GB of internal storage; Slingshot® ready	S (w/Electric Drive)	S (w/Electric Drive)	S (w/Electric Drive)
Control Box	Controls row markers, folding, fan control, point row clutch and work lights.	S (w/Ground Contact Drive)	S (w/Ground Contact Drive)	S (w/Ground Contact Drive)
Electric Single Row Clutches	Includes row unit mounted electric clutches, cables, row unit hardware kit and #41 roller chain. (Not required with the electric meter drive option.)	O	O	O
Row Units				
Row Unit	4000 Series Row Unit. Double disc "V" openers; cast inner and formed steel outer scrapers; cast iron shank; 2 load equalizing depth gauge wheel arms with two wheels and 4" x 16" rubber tires; "V" closing wheel arm with 5-position quick-adjust down force spring handle; drive components and meter clutches included for mechanical and hydraulic drive.	S	S	S

Feature/Option	Descriptions	12R 30	16R 30	24R 30
Row Units (cont'd)				
Closing Wheels	Rubber V (two, adjustable width, 1" x 12" rubber tired plastic closing wheels with double-row sealed ball bearings).	O	O	O
	Cast Iron (two, adjustable width, 1" x 12" cast iron closing wheels with double-row sealed ball bearings).	O	O	O
	Dual position mount allows staggered or straight "V" mounting. Double disc, single press wheel option also available.	O	O	O
Seed Tubes and Sensors	Capable of counting skips, multiples and singulation.	S	S	S
Quick Adjustable Down Force Springs	Includes four quick-adjustable down force springs, two upper parallel arm spring anchor castings and two locking pins. Provides four positions of down pressure adjustment.	O	O	O
Heavy Duty Down Force Springs	Includes four, 292lb/in rated springs, two spring anchors, and mounting hardware	O	O	O
Pneumatic Down Pressure Mechanical Drive (12 VDC) or Electric Drive (24 VDC)	Includes air springs and mounting castings; 12 VDC air compressor with three-gallon capacity air tank; wiring harness; air hoses and fittings; dual solenoid air valve; stainless steel, 160 psi, 2" liquid filled gauge; available with cab mounted control console or ISOBUS interface.	O	O	O
Row Unit Mounted No Till Coulters	Choose from 1" bubbled, 1" fluted, or 3/4" fluted	O	O	O
Residue Wheels	Counter Mounted or Row Unit Mounted. Includes two 12" diameter 12-tine austempered ductile iron residue wheels with curved tines and cast iron hubs with sealed bearings. 2-position 5/8" spindle bolt mounting allows tine wheels to be mounted, interlocked or staggered. Maximum depth is set with spring-loaded pin and can with 11 positions in 1/4" increments.	O	O	O
Granular Chemical Attachments	Includes row unit hopper panel extension with mounting hardware, 1.4 cu. ft. hopper with lid. Tubes and slope-compensating spreaders allow front 4½" banding for straight drop in-furrow placement. Contact and hydraulic drive includes spring-loaded idler and clutch, centered single die-cast meter with agitator roller and metering gate. Electric drive option includes wave impeller meter and flow sensors to ensure constant material flow and easy clean-out. Catwalk required with bulk fill models	O	O	O
Metering				
Vacuum Seed Metering	4000 Series Vacuum Meter. Plant corn, soybeans, milo/grain sorghum, sugar beets, cotton, popcorn, edible beans (black turtle, navy, pinto & great northern), low-rate soybean or sunflowers (seed discs sold separately for appropriate crop selection).	S (w/vacuum)	S (w/vacuum)	S (w/vacuum)
Mechanical Finger Pickup	Plant corn and sunflowers.	O	O	O
Brush-Type Seed Meters	Plant soybeans, milo/grain sorghum or cotton (seed discs sold separately for appropriate crop selection).	O	O	O
Fertilizer Packages				
Liquid Fertilizer Packages	Poly tank with lid, saddle, hoses, valves and fittings, quick fill valve and valve mounting bracket.	200 Gal. (BF) 500 Gal. (RU Hoppers)	300 Gal. (BF) 600 Gal. (RU Hoppers)	500 Gal. (BF) 600 Gal. (RU Hoppers)
Liquid Fertilizer Heavy Duty Notched Single Disc Openers	16" diameter flat notched blade. Effective depth range 1" to 4".	O	O	O
Liquid Fertilizer Tube in Furrow (one per row)	Includes drop tube and hardware for in-furrow liquid fertilizer application	O	O	O

Feature/Option	Descriptions	12R 30	16R 30	24R 30
Liquid Fertilizer Pump Packages	Piston Pump with Flow Dividers. Includes CDS-John Blue® NGP-6055 piston pump, CDS-John Blue® flow dividers for precise distribution of liquid fertilizer to all rows, 1¼" line strainers, pump mounting brackets, drive components and sprockets. Includes low rate check valve.	O	O	O
	Piston Pump with Manifolds. Includes CDS-John Blue® NGP-6055 piston pump, precision flow manifold, pump mounting bracket, drive components and sprockets.	O	O	O
	Centrifugal Pump Package. Hydraulically driven centrifugal pump, pump mounting bracket, precision flow manifold, tank level indicator and alarm (requires ISOBUS electronics control package. Includes fertilizer row shut off package (24V) to enable section control, fertilizer flow switch package for individual row blocked flow sensor, and cable fertilizer shut off flow switch which includes cabling to communicate with fertilizer shut-off and flow sensors on ISOBUS controlled planters.	O	O	O
Miscellaneous				
Temperature Sensor Option	Includes mounting bracket, hardware, sensor and cabling for sensing ground temperature on ISOBUS equipped planters. Only available on Electric Drive planters.	O	O	O
Transport Lights and Signs	Safety/warning lights with SMV sign.	S	S	S
ASABE Lighting Package with 7 Pin Connector	Includes harness package required with non-ISOBUS ready tractors, when used with KPMIII monitor, or when used with a third party display.	S	S	S
Auxiliary Work Light Package	Includes two wing and two bulk fill catwalk mounted work lights, wiring, mounting brackets and hardware.	S	S	S
Safety Chain	40,500 lb rated ½" chain	S (with draw bar)	S (with draw bar)	S (with draw bar)
Parking Jack	Manual parking stand	S	S	S
Rear Trailer Hitch	Tow a 3-or 4-wheel wagon behind the planter.	O	O	O