



## 3200 Wing Fold Planters: Standard & Optional Features

Feature/Option	Descriptions	12R 30
<b>Planter Frame/Toolbar</b>		
Frame Style	2 section single frame; wing fold	S
Toolbar	7" x 7" x 3/8" toolbar	S
Center Post	---	---
Flexibility	2 section center flex; 13 degrees flex up and 12 degrees flex down	S
Industrial-Grade Hydraulic Cylinders	Superior reliability over ag-grade cylinders used by competition.	S
Row Markers	3 Fold with 16" diameter solid concave blade with cast iron 4-bolt hub and metal depth band on blades.	S
Hydraulic Weight Transfer	Keeps wing row units in the ground. Reduces potential pinch row compaction on the center section.	---
Wings	# of rows per wing	S (6)
Tongue/Hitch	(2) 4" x 7" tubes with 2 1/8" diameter flex hinge pins and adjustable height cast iron double clevis hitch.	S
2 Pt Hitch Adapter	Converts planter from drawn to semi-mounted	--
Tires-Transport	7.50" x 20" 8 ply	S (4)
Tires-Wing/Lift	7.50" x 20" 8 ply	S (2)
Rock Guard Package	Shields transport tires from rocks. Includes 8 half moon tire shields and mounting hardware to attach to transport wheel arms.	---
<b>Row Units</b>		
Pull Row Unit	Double disc "V" openers; cast inner and formed outer scrapers; welded 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 for plateless meters.	S
Closing Wheels	Rubber V (two, adjustable width, 1" x 12" rubber tired plastic closing wheels with double-row sealed ball bearings) or Cast Iron (two, adjustable width, 1 x 12" cast iron closing wheels with double-row sealed ball bearings). Dual position mount allows staggered or straight "V" mounting.	O
Split Row Push Units	Push row units to reduce row spacing to 1/2 of the planter's original row spacing. Packages include row units, drive kit with required sprockets, chains and 7/8" hex drill shafts; manual shut-off clutch allows disengagement of split row drive without chain removal; manual row unit lockup. Closing Wheels (Rubber or Cast Iron), Down Pressure (Quick-Adjustable Down Force Springs or Pneumatic Down Pressure) and Automatic Swath Control options available.	---
Even Row Push Row Unit Package	One Push Row Unit, mounting hardware, 7/8" hex drill shaft extension and coupler to add a push row unit to the left hand end of planter.	---
Row Unit Extension Package	Extends center four row units 4" rearward to allow clearance for coulters mounted residue wheel attachment to transport axle in planting position and hydraulic hose routing post in transport position. Includes eight row unit mounting extension brackets, (4) No. 41 chain extensions and required mounting hardware.	O
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

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Pneumatic Down Pressure	Includes upper and lower 150 psi-rated air spring mounting castings with mounting hardware; 12 VDC air compressor with three gallon capacity air tank; mounting components and shields; wiring harnesses; 3/8" O.D. nylon hose and fittings; dual solenoid air valve and stainless steel, 160 psi, 2" liquid-filled gauge; planter wiring harness and cab-mounted control console.	---
Dual Gauge Wheel Package	Includes (2) 4" x 16" tire and wheel assemblies and mounting hardware/spacers	---
Residue Wheel Attachment	(1) 12" diameter 12-tine residue wheel for various residue/tillage conditions. Available for mounting on Row Units, Frame or Coulters (some restrictions apply).	O
Row Unit Mounted Disc Furrowers	12" Diameter notched or solid. Clears clods and trash for a residue-free seedbed.	O
Row Unit Mounted No Till Coulters	Choose from 1" bubbled, 1" fluted, or 3/4" fluted	O
Frame Mounted No Till Coulters	Adjustable coil springs apply up to 500 lbs of down force. Choose from 1" bubbled, 1" fluted, or 3/4" fluted	O
Granular Chemical Attachments	Includes row unit hopper panel extension with mounting hardware, 1.4 cu. Ft. hopper with lid, drive components with spring-loaded idler and clutch, centered single die-cast meter with agitator roller and metering gate. Tubes and slope-compensating spreaders allows front 4 1/2 inch banding or straight drop in-furrow placement. (not compatible with split rows)	O
<b>Seed Handling</b>		
Conventional Seed Hoppers	1.9 bu. Capacity with Mechanical Meters; 1.75 bu. Capacity with Vacuum Meters	O
Bulk Fill Seed Hoppers w/Air Seed Delivery	---	---
Bulk Fill Seed Hopper Scale Package	Accurately select/balance seed levels for each variety and exact acres	---
<b>Metering</b>		
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).	O
Mechanical Finger Pickup	For corn and sunflowers	O
Brush-Type Seed Meters	For soybeans, milo/grain sorghum or cotton (seed discs sold separately for appropriate crop selection)	O
<b>Monitors &amp; Control</b>		
KPMIII Electronic Seed Monitor	Includes LCD monitor with mounting brackets and hardware, power cable w/adaptor, harnesses, tie wraps and seed tube brush. Comes with Magnetic or Radar Distance Sensor.	O
Ag Leader PMM	Includes Planter monitor module (PMM) with cover; planter power harness; mounting hardware and implement cable. Requires Kinze display package or customer-supplied Ag Leader Integra display with associated cab harnesses.	O
ISOBUS PMM	Includes an ISOBUS compatible population monitoring module (PMM), seed sensors, harness to connect the PMM to an ISOBUS display, seed sensor harness, module mount and hardware kit.	O
ISOBUS Product Control	Includes an ISOBUS compatible control module and harnesses	O
INTEGRA Display	12.1" diagonal color, touch-screen display with RAM mount, planter harness, power cable, module switch box and module power control relay	O
GPS AutoSwath or Manual Control	Single row clutches turn planter sections on and off using GPS and coverage maps, or do it manually by overriding the system.	O
Variable Hydraulic Drive	Dual motor, variable rate hydraulic driveline to adjust population rates on-the-go from the tractor manually or via GPS mapping	O
Electric Single Row Clutches	Includes row unit mounted electric clutches, cables, row unit hardware kit and #41 roller chain.	O

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<b>Transmission/Drive System</b>		
Spring-Loaded Contact Drive	4.10" x 6" contract drive tires (# of tires per wing)	S (1)
End-Mounted Transmissions	(2) end-mounted, quick adjust with #40 chain	S
Half Rate (2 to 1) Drive Reduction	Includes sprockets and extended chains required to reduce driveline speed (and application rates) to approximately 50% of standard.	O
<b>Fertilizer Packages</b>	Liquid Fertilizer not available when equipped with frame mounted no till coulters.	
Liquid Fertilizer Packages	(2) 200 gallon 30" diameter poly tanks (total 400 gallon capacity) with lids	O
Liquid Fertilizer Double Disc Openers	15" diameter offset "V" blades. Effective depth range 1-4"	O
Liquid Fertilizer Notched Single Disc Openers	16 3/4" diameter flat notched blade. Effective depth range 1-4"	O
Liquid Fertilizer Heavy Duty Single Disc Openers	18" diameter singe angled blade. Effective depth range 2-5"	---
Liquid Fertilizer Pump Packages	CDS-John Blue Squeeze Pump or Piston Pump	O
Low Rate Liquid Fertilizer Check Valve	Includes check valves and hose clamps for in-line installation at fertilizer openers to help equalize row-to-row liquid fertilizer delivery at low rate settings and reduce dribbling from openers on turns	O
Dry Fertilizer Packages	(1) 550 lb capacity fiberglass hoppers with lids (one per two rows)	---
Dry Fertilizer Double Disc Openers	15" diameter offset "V" blades. Effective depth range 1-4"	---
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Dry Fertilizer Heavy Duty Single Disc Openers	18" diameter singe angled blade. Effective depth range 2-5"	---
Rear Trailer Hitch	Tow a 3 or 4 wheel wagon behind the planter	
<b>Miscellaneous</b>		
Tractor-Mounted Hydraulic Pump	Single stage pump; Alleviates hydraulic requirement of the tractor	---
Planter-Mounted 2-Section Hydraulic Pump	Dual stage pump; Alleviates hydraulic requirements of the tractor	---
Hydraulic Lift System	Master/slave rephasing cylinders	S - (2 master; 2 slave)
Safety Chain	20,200 lb rated 3/8" chain	S
Parking Jack	7,000 lb. side crank	S
Auxiliary Work Light Package	(2) 50 watt, 3" x 5" halogen flood lamps with brackets and hardware to mount lights at the top of the lift cylinder; wiring harness with connectors to plug into existing planter light harness	---