

Specifications

Model Family Frame Type	9100 Rigid pull-type, rigid, single bar	9180 Forward Fold pull-type, horizontal forward fold flex, single bar, 2-section	9200 Wing Fold pull-type, horizontal forward wing fold rigid or flex, single bar, 2-section	9500 Flex Frame ¹ pull-type, forward wing fold, flex, single bar ² : 3-section	9700 Rigid mounted, rigid, single bar
Rows/Spacing Available	6R30, 8R30	12R30, 16R30	12R30	12R30/23R15FN, 24R20, 24R22, 16R30/31R15FN	8R30, 12R30
Hitch on Planter	Adjustable Clevis	2-Point hitch, ASAE Category II or III	Adjustable Clevis	Adjustable Tab Hitch	Adjustable ASAE Category II or III
Frame Flex	none	7" up/ 7" down	10" up/10" down on flex model	8" up/8" down	none
Frame Size in (mm)	7 x 7 (178 x 178)	7 x 7 (178 x 178)	7 x 7 (178mm x 178mm)	7 x 7 (178 x 178)	7 x 7 (178 x 178)
Planting Capabilities	Conventional till No-till Ridge-till	Conventional till No-till Ridge-till	Conventional till No-till	Conventional till No-till	Conventional till No-till Ridge-till
Drive - Standard	ground chain & sprockets	ground chain & sprockets	ground chain & sprockets	ISO CAN-based variable rate hydraulic drive	ground chain & sprockets
Drive - Optional	none	none	none	none	ISO CAN-based variable-rate hydraulic drive on 12 row
Transmission - Standard	Quick-adjust, center-mounted. Interchange-able sprockets provide 32 settings to obtain seed rate increments of less than 4%.	2 transmissions, 1 on each wing, Quick-adjust. Interchangeable sprockets provide 32 settings to obtain seed rate increments of less than 4%.	Flex frame: 2 transmissions, 1 on each wing Rigid frame: Single transmission Quick-adjust, interchangeable sprockets Provide 32 settings to obtain seed rate increments of less than 4%.	Hydraulic controller & motor with infinite population settings	Quick-adjust, center-mounted. Interchange-able sprockets provide 32 settings to obtain seed rate increments of less than 4%.
Lift System	wheel module w/hydraulic cylinder	wheel module w/hydraulic cylinder	wheel module w/hydraulic cylinder	wheel module w/hydraulic cylinder	tractor three-point hitch
Number	4	4 on 12R, 8 on 16R Optional 6 or 8 on 12R	6	6 on 23R, 8 on 16R, 8 on 24R, 8 on 31R	tractor 3 pt + optional rear lift assist
Tires					
Transport Tire Size	9.5L-15, 6 ply	9.5L-15, 12 ply	9.5L-15, 12 ply	31x13.5L-15, 12 ply	9.5L-15, 6 ply
Number of Trans Tires	4	2 on 12R, 4 on 16R	4	4	-
Total Tires per Planter	4	4 on 12R, 8 on 16R	6	8 (6 on 23R)	2 (4 on 12R 30")
Optional	-	Add 2 Trans & 2 Drive on 12R	-	-	2 on lift assist models
Metering Units	9000 Series, low pressure air system with hydraulically driven blower	9000 Series, low pressure air system with hydraulically driven blower	9000 Series, low pressure air system with hydraulically driven blower	9000 Series, low pressure air system with hydraulically driven blower	9000 Series, low pressure air system with hydraulically driven blower
Blower Drive - Standard	direct drive from tractor remote valve	direct drive from tractor remote valve	direct drive from tractor remote valve	direct drive from tractor remote valve	direct drive from tractor remote valve
- Optional	pto-driven hydraulic pump	pto-driven hydraulic pump	pto-driven hydraulic pump	pto-driven hydraulic pump & reservoir	pto-driven hydraulic pump on ground drive models
Hopper Capacities Seed Hopper² bu (L)	2 or 3 (70.5 or 105.7)	2 or 3 (70.5 or 105.7)	2 or 3 (70.5 or 105.7)	23R, 31R: CFS 90 (31720, 2@45 (1586) 24R: CFS , 2 or 3 (70.5 or 105.7)	2 or 3 (70.5 or 105.7)
Fertilizer Capability	liquid or granular	liquid or granular	liquid	none	none
Markers - Standard	"vertical rigid arm on 6RN vertical bifold on 8R"	vertical bifold on 12R vertical bifold w/ extension on 16R flat fold breakaway on 12R trifold breakaway on 16R	trifold	flat fold breakaway on 23R trifold on 16R, 24R & 31R none	vertical bifold arm flat fold breakaway
Optional	flat fold breakaway for 8R		none	none	
Remote Control Valve Requirements	2 for tractor hydraulic-driven blower 1 with pto-driven blower pump	3 for tractor hydraulic-driven blower 2 with pto-driven blower pump	3 for tractor hydraulic-driven blower 2 with pto-driven blower pump	3 for tractor hydraulic-driven blower 2 with pto-driven blower pump	2 for tractor hydraulic-driven blower 1 with pto-driven blower pump
Monitor - Standard	SM100	SM400SE	C1000	C1000	SM100 up to 8R, SM400SE on 12R ground drive, C1000 on 12R hydraulic drive
Optional	SM300	C1000 or C3000	C3000	C3000	SM300 up to 8R, C3000 on 12R hydraulic drive
Sensors - Standard	High Rate	High Rate	High Rate	High Rate	High Rate
Optional	none	Seed Smart	Seed Smart	Seed Smart	Seed Smart on 12R
ISOBUS-Ready	No	No	Yes	Yes	Yes, when equipped with hydraulic drive option
Transport Width ft (m)	6RN - 16'1" (4.90) 8RN - 20'9" (6.32)	12RN & 16RN - 15' (4.57)	16'4" (4.98)	23R15 & 31R15 - 16'8" (5.08) 24R20 - 16'3" (4.95) 24R22 - 15'8" (4.78)	8RN - 20'9" (6.32) 12RN - 30'9" (9.37)

Note: 1. All models of 9500, except 24R30, use a 3" x 7" bar to mount row units to main 7" x 7" bar.
2. All planters with split rows feature lock-ups.

9700 Vertical Fold mounted, vertical fold, single bar	9700 Stacker Toolbar mounted, stack fold, single bar	9812 Narrow Transport	9816 Narrow Transport	9824 Narrow Transport	9831 Narrow Transport/Narrow Row	9936 Large Frame - Flex
12R30	12R30, 12R36, 12R38, 12R40, 16R30	12R30	16R30	24R30	31R15/16R30FN	36R20, 36R22, 36R30
Adjustable ASAE Category II or III 7° up/ 0° down	Adjustable ASAE Category III or IIIN 5° up/ 5° down or pin rigid	3 pt or Drawbar 21° up/ 21° down	3 pt or Drawbar 21° up/ 21° down	3 pt or Drawbar 21° up/ 21° down	Adjustable Tab Hitch 10° up/ 10° down	Drawbar Swivel Hitch 36R-30" = 42° each wing (2 section wing), 36R-20" & 36R-22" = 21° degrees each wing
7 x 7 (178 x 178)	7 x 7 (178 x 178)	7 x 7 (178 x 178)	7 x 7 (178 x 178)	7 x 7 (178 x 178)	7 x 7 (178 x 178)	7 x 7 (178 x 178)
Conventional till No-till Ridge-till	Conventional till No-till	Conventional till No-till	Conventional till No-till	Conventional till No-till	Conventional till No-till	Conventional till No-till
ground chain & sprockets	ground chain & sprockets	Ground Drive Chain and Sprockets	Ground Drive Chain and Sprockets	Ground Drive Chain and Sprockets	ISO CAN-based variable rate hydraulic drive	ISO CAN-based variable rate hydraulic drive
ISO CAN-based variable-rate hydraulic drive	ISO CAN-based variable-rate hydraulic drive (8792 and 8776)	ISO CAN-based variable-rate hydraulic drive	ISO CAN-based variable-rate hydraulic drive	ISO CAN-based variable-rate hydraulic drives	none	none
Quick-adjust, center-mounted. Interchangeable sprockets provide 32 settings to obtain seed rate increments of less than 4%.	3 transmissions on 12RN, 1 on 8R Quick-adjust, center-mounted. Interchangeable sprockets provide 32 settings to obtain seed rate increments of less than 4%.	Single Drive Contact Wheel Transmission. 32 settings to obtain seed rate increments of less than 4%	Single Drive Contact Wheel Transmission. 32 settings to obtain seed rate increments of less than 4%	Single Drive Contact Wheel Transmission. 32 settings to obtain seed rate increments of less than 4%	Hydraulic controller & motor with infinite population settings	Hydraulic controller & motor with infinite population settings
tractor three-point hitch	tractor three-point hitch	wheel module w/hydraulic cylinder	wheel module w/hydraulic cylinder	wheel module w/hydraulic cylinder	wheel module w/hydraulic cylinder	dual master slave
tractor 3 pt + optional rear lift assist		6	8	10	6	4 on 36R-20" & 36R-22" 8 on 36R-30
9.5L-15, 6 ply - 4 2 on lift assist models	9.5L-15, 6 ply - 2 on 8R, 4 on 12R -	10:00 15 F1 Load range D 4 6 -	255-70R 22.5 radial load range H 4 8 -	255-70R 22.5 radial load range H 4 10	32/15.5 X 16.5, 14 ply 4 6 -	36R-20", 36R-22", 36R-30": (2) 30" x 67" Tracks 36R20" & 36R-22" 2 tires per wing: total of 4 per planter. 36R-30" 4 tires per wing: total of 8 per planter Tires: 33x15.5-16.5, 12 ply
9000 Series, low pressure air system with hydraulically driven blower	9000 Series, low pressure air system with hydraulically driven blower	9000 Series, low pressure air system with hydraulically driven blower	9000 Series, low pressure air system with hydraulically driven blower	9000 Series, low pressure air system with hydraulically driven blower	9000 Series, low pressure air system with hydraulically driven blower	9000 Series, low pressure air system with hydraulically driven blower
direct drive from tractor remote valve	direct drive from tractor remote valve	direct drive from tractor remote valve	direct drive from tractor remote valve	direct drive from tractor remote valve	direct drive from tractor remote valve	direct drive from tractor remote valve
pto-driven hydraulic pump on ground drive models	pto-driven hydraulic pump	pto-driven hydraulic pump and reservoir	pto-driven hydraulic pump and reservoir	pto-driven hydraulic pump and reservoir	pto-driven hydraulic pump and reservoir	none
2 (70.5)	2 (70.5)	2 or 3 or 90 CFS	2 or 3 or 90 CFS	2 or 3 or 90 CFS	90 (3172), 2 @ 45 (1586)	150 CFS
none	none	liquid	liquid	liquid	none	liquid
vertical bifold arm	2-section, rear fold	bifold breakaway	trifold breakaway	trifold breakaway	trifold breakaway	-
none	none	none	none	none	none	36R-20" & 36R-22"
2 for tractor hydraulic-driven blower 1 with pto-driven blower pump	3 for tractor hydraulic-driven blower 2 with pto-driven blower pump	3 for tractor hydraulic-driven blower 2 with pto-driven blower pump	4 for tractor hydraulic-driven blower 3 with pto-driven blower pump	4 for tractor hydraulic-driven blower 3 with pto-driven blower pump	4 for tractor hydraulic-driven blower 3 with pto-driven blower pump	4 for tractor hydraulic-driven blower
SM400SE on 12R ground drive, C1000 on 12R hydraulic drive	SM400SE on ground drive, C1000 on hydraulic drive	C1000	C1000	C1000	C1000	C3000
C3000 on 12R hydraulic drive	C3000	C3000	C3000	C3000	C3000	none
High Rate	High Rate	High Rate	High Rate	High Rate	High Rate	High Rate
Seed Smart	Seed Smart on 12R	Seed Smart	Seed Smart	Seed Smart	Seed Smart	Seed Smart
Yes, when equipped with hydraulic drive option	Yes, when equipped with hydraulic drive option	Yes	Yes	Yes	Yes	Yes
12RN - 21'4" (6.50)	12R30 - 20'8" (6.30) 12R36 - 20'4" (6.20) 12R38 - 25'0" (7.62) 12R40 - 25'0" (7.62) 16R30 - 26'2" (7.97)	12' (3.65)	12' (3.65)	12' (3.65)	12'11" (3.94)	9936-20 & 9936-22: 16'2" 9936-30: 15'