PLANTING AND SEEDING

PRODUCT SUPPORT





2021 EDITION

CASE IH

WE CALL IT EARTH METAL®

YOU CAN FIND SOMETHING THAT LOOKS LIKE IT. BUT YOU WON'T FIND ANYTHING THAT WORKS LIKE IT.

Others can imitate, but none can replicate. That's because Earth Metal is made from a combination of patented alloys for unmatched quality. Earth Metal tillage products offer unprecedented strength and durability while maintaining a superior level of ductility. This assures strength and flexibility under the most demanding conditions. Not only will they last longer, they'll stay sharper and work harder. It's no wonder Earth Metal is recognized as an industry leader. **Stop by your local Case IH dealer today.**

CNH INDUSTRIAL GENUINE PARTS

EARTH METAL®

CASE IH

PLANT THE SEEDS OF SUCCESS.

EVERY PLANT. EVERY ROW. EVERY ACRE.

Take on spring and rethink productivity with genuine Case IH parts and service for record-yield performance. It's planting season—and time to set a new standard of productivity and efficiency. From soil prep and seed placement to optimization and nutrition, our agronomic approach delivers uniform emergence. Case IH genuine parts are backed by proven planting science—and designed to help you make the most of your growing environment.

EARTH METAL

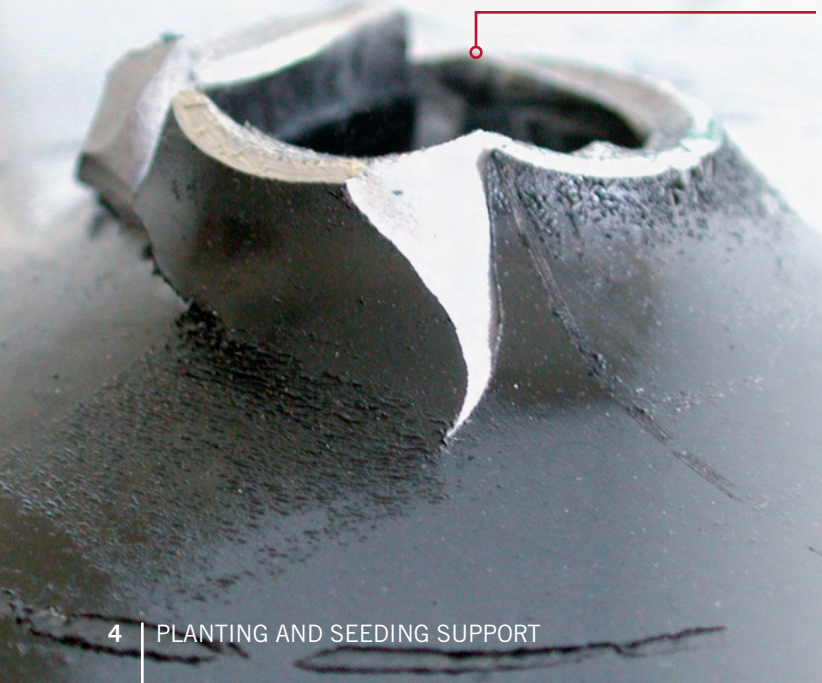
PROVEN. PREFERRED. POWERFUL.

Not all sweeps and disk blades are created equal. The stronger, sharper and longer-wearing they are, the fewer headaches in the field—and the fewer unnecessary drains on your profit. Less breakage and more efficient seedbed preparation and planting mean higher yields.

But what goes into a better sweep, opener or disk blade? The superior design of Case IH Earth Metal® ground-engaging components is based on years of in-depth research on tillage and planting agronomics—the science behind maximum yields.

The resulting product is tougher, longer-lasting and significantly more durable in the face of harsh field and crop conditions.

The Ball Test: *A one-inch ball is forced through a half-inch hole to study how the metal responds to deformation and cracking. The length and shape of the resulting fractures are a key measure of a disk's ability to withstand field stress.*



Manufactured from special alloys, Earth Metal® discs, sweeps and openers are stronger and tougher than carbon steel.

Scan the code to see how Earth Metal compares to the competition.

WHAT GOES INTO BETTER DISK BLADES? A LOT.

Here's an inside look at the Earth Metal manufacturing and testing process.

1. Iron ore, limestone and coal to restrict contaminants such as copper, nickel, etc.; no steel scrap or alloying materials. Contaminants weaken the end product.
2. Oxygen furnace is used, not Electric Arc furnace. Electric Arc furnaces permit copper and nickel contaminants.
3. Heated to create the required Austentite structure, then simultaneous, not sequential, forming and very rapid quenching. Cooling 100 degrees Celsius per second to achieve pure tempered Martensite structure.
4. Earth Metal microscopic structure encapsulates sulfur, eliminating layers of sulfur, which are natural fracture points.
5. These steps achieve extreme strength for longer wear on the farm with ductility, flexibility to rebound back to original shape after hitting hard objects in fields. This means more productive time when required by you.
6. Material-handling robots assure quality control and consistency to form and cool simultaneously in seconds, every time.
7. These blanks then undergo further processing, including edging, notching, shaping and heat-treating.
8. They are then coated with high-gloss enamel, which is baked to a smooth, hard finish that improves surface appearance and provides rust protection. An inline oven draws each blade individually, which relieves internal stresses and improves ductility and quality.
9. Brinell or Rockwell tests measure hardness to ensure the disk blade is resistant to wear. The Ball test measures toughness by forcing a polished steel ball through the disk blade; the length and shape of the resulting fractures are measures of the disk blade's ability to resist cracking.
10. Disk blades are also tested for elasticity under load. This test applies pressure to the blade—the propensity of the blade to return to its original shape afterward is a measure of its ability to resist impact.

ALL MAKES APPLICATION – WE'VE GOT A BLADE FOR THAT.

The Earth Metal line is one of the largest in the industry – with disk blade option for nearly every equipment brand and application. Below are just a few other brands Earth Metal can fit. See your Case IH dealer for specific models.

- John Deere
- Great Plains
- Kuhn-Krause
- Landoll
- Sunflower
- Tatu
- Wishek
- And many more!

PLANTERS

Case IH Opener Disk Assemblies

PART NO.	DESCRIPTION	APPLICATION
84389196	14" × 3.5mm leading	800-900-950-955 Cyclo planters
84389195	14" × 3.5mm trailing	
90324905	14" × 3.5mm leading	All 1200 series Early Riser and Cyclo planters
90324957	14" × 3.5mm trailing	
90325367	14" × 4.5mm leading	
90325368	14" × 4.5mm trailing	
90327319	14" × 5mm leading	
90327321	14" × 5mm trailing	
141464C92	13.5" × 3mm	Fertilizer opener; all Early Riser and Cyclo planters
603020R92	14" × 3mm	5100/5200/6200/6300 drills, legacy IH drills
1344911C3	14" × 2.5mm	5300/5400/5500 drills
73357622	15" × 4mm	Case IH twin-row planters
47743000	9" × 2.5mm	Closing disk assembly for 2000 Series
51691765	15" × 4.5mm leading/trailing	2000 Series
48118293	Ball Bearing-Opener	2000 Series

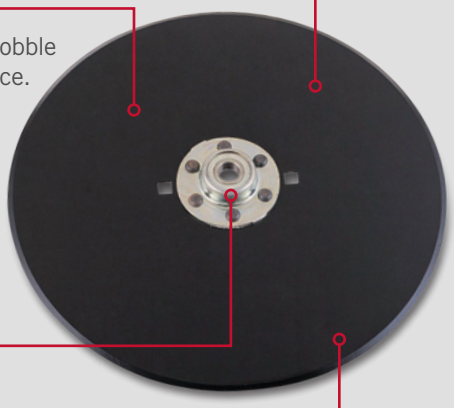
NEW EARTH METAL OPENER ASSEMBLY

Earth Metal Blade

Earth Metal blades last significantly longer and are measurably stronger than conventional blades.

Improved Runout

New process reduces wobble for improved performance.



Machined Edge

Improved penetration in conventional and no-till applications.

Extended Life and Reduced Wear

Gothic arch design with two-point contact between the balls and the races to give a higher load rating and to reduce wobble. This design helps to extend bearing life and reduce opener disk wear.

New Heavy-duty Cast Ductile Iron Hub and Class 3 Rivets

These new hubs and rivets provide improved strength and durability.

All-Makes – Earth Metal® Opener Assemblies

PART NO.	MANUFACTURER	DESCRIPTION	APPLICATION	REPLACES	SIZE
73343551	Bourgault	Flat coulter with countersunk holes	Disk drills/mid row banders®	2085-03	20.5" × 5mm
73343553	Bourgault	Flat coulter	Disk drills/mid row banders	6717-99	20.5" × 4.5mm
73343554	Bourgault	Flat coulter	Disk drills/mid row banders	6407-25	18.4" × 4.5mm
141464C92	Crustbuster	Trailing double disk assembly	Use as trailing blade on Crustbuster 4000, 4020 and Min-Til 4025, 4030, 4740, 4745. 5020.	863597	13-1/2" × 3mm
B500276	Crustbuster	Leading double disk assembly	Use as leading blade on Crustbuster 4000, 4020 and Min-Til 4025, 4030, 4740, 4745, 5020. Use as leading or trailing blade on Min-Til 5007, 5010, 5015, 5527, 5530, 5536.	859090	15" × 3mm
428354A1	Crustbuster	HD disk opener assembly	Use as leading or trailing blade on Min-Til 5007, 5010, 5015, 5527, 5530, 5536.	859090	15" × 3.5mm
435480A1	Crustbuster	Bearing kit for openers (2 bearings and bolts)	Fits All-Plant 3400, 4000, 4610, 4613, 4615, 4620, 4740 and 4745	400580/401042	(2 Bearings and Bolts)
416443A1	Great Plains	Disk opener assembly	Various grain drills	107-054S	13-1/2" × 3mm
73357622	Great Plains	Disk opener assembly	Late model drills and planters	404-121S	15" × 4mm
73342970	Hiniker	Opener disk	Drills	K16177HAS	16" × 5mm
141464C92	John Deere	Fertilizer disk opener assembly	MaxEmerge™ row units; 7000, 7100, 7200, 1700	AA57466	13-1/2" × 3mm
B500276	John Deere	Disk opener assembly	7000, 7200, most 1700 not XP	AA37474/AA55927	15" × 3mm
428354A1	John Deere	HD disk opener assembly	7000, 7200, most 1700 not XP	AA53860	15" × 3.5mm
133480A1	John Deere	Opener disk use with bearing kit – 419594A1	750-1850 Drills	N283804	18 1/10" × 5mm
419594A1	John Deere	Opener disk bearing kit	750-1850 Drills	—	—
B500277	John Deere	XP row units	—	AA65248	15" × 3.5mm
428354A1	Kinze	HD disk opener assembly	3000 Series	GA8324	15" × 3.5mm
B500276	Kinze	HD disk opener assembly	2000 and 3000 series row units	GA2013	15" × 3mm
416443A1	Krause	Disk opener assembly	5200, 5300, 5400 Drills	5250-484-0A,	13-1/2" × 3mm
416443A1	Lilliston	Disk opener assembly	Disk Drills	6603280/6603281	13-1/2" × 3mm
416015A1	Marliss, Sukup, Best, M&W	Seed opener disk	Disk Drills	W701010	13" × 3mm
416015A1	Sunflower	Seed opener disk	Grain Drills	555-002	13" × 3mm
ZSN18358	Sunflower	Disk opener assembly	9100 Through 9600 series drills	N9753/SN18166	15" × 3.5mm
416443A1	Tye, UFT	Disk opener assembly	Various Tye, UFT and Deere grain drills	540-647	13-1/2" × 3mm
B500276	White	Disk opener assembly	6000 Series	700167073	15" × 3mm
428354A1	White	HD disk opener assembly	8000 Series	700164107	15" × 3.5mm
141464C92	White	Disk opener assembly	5100, 5400, 5700 Seed and Fert.	247169BS	13-1/2" × 3mm

GROUND ENGAGING/WEAR PARTS

Rotary Scraper

Part No. 1547680C1

Application: 800-955 Cyclo and 1200 Early Riser planters

- Recommended in abrasive or sticky soil conditions

Deluxe Scraper Kits

Part No. 47673435
(for newer models after s/n 19344)

Part No. 47678426
(for previous models before s/n 19344)

Application: 800, 900, 950, 955, 1200 planters

- Kit includes scraper assemblies (Left Hand - PN 84227670 and Right Hand - PN 84227671) and mounting hardware

Scraper Blade Kit

Part No. B95271

Application: 800, 900, 950, 955, 1200 planters

- Kit includes scraper blades and rivets

Point/Shoe Planter Kits

Part No. B94595 (Shown)

Application: 800, 900, 950, 955Planters

Part No. B96489

Application: 1200 planters

- Kit includes shoe, point, deflector and mounting hardware
- Handy package for tool box or farm shop
- New design with a slotted Z clip for liquid fertilizer capabilities

Part No. B94595

Row Opener Kits

Part No. B95225 (Shown)

Application:
800-955 series planters

Part No. 47496216
(Includes 3.5mm openers)

Part No. 47498134
(Heavy-duty kit, includes 4.5mm openers)

Application: 1200 planters

- All kits include opener disks, shoe firming point and hardware

Part No. B95225

Firming Point Kits

Part No. B94735

Application: 800, 900, 950, 955, 1200 planters

- Handy carded two-pack
- Use firming point gauge (sold separately; Part No. 1958225C4) to assess firming point wear
- Heat treated

Part No. 48030827 (Firming Point)

Part No. 48030831 (Firming Point and Shoe)

Application: 2000 series planters

Closing Disk Kits

Part No. B95381 (Shown)

Application: 800, 900, 950, 955, 1200 planters

- Kit includes two disk assemblies, dust caps and hardware

Part No. 48031218

Application: 2000 series planters

- Kit includes two disk assemblies, bearing caps and hardware

Part No. B95381

Disk Scraper Kits

Part No. 48030825
(LH Row Unit Opener Disk Scraper)

Part No. 48030826
(RH Row Unit Opener Disk Scraper)

Application: 2000 series planters

- Kit includes scrapers and mounting hardware

Row Unit Kit

Part No. 47927274

Application: 2150 planters

Residue Manager Kit

Part No. 90974C1
(Shown)

Application:
1200 and 2000 series planters

GROUND ENGAGING/WEAR PARTS

Down-Pressure Spring Kit

Part No. B95269

Application: 800, 900, 950, 955, 1200 planters

- Kit includes springs and hardware

Press Wheel Bearing Kit

Part No. B95270

Application: 800, 900, 950, 955, 1200 planters

- Kit includes press wheel bearing and hardware

Heavy-Duty Press Wheel Casting and Closing Disk Spring Kit

Part No. 84606219

Application: 1200 planters

- Ductile cast-iron press wheel with heavy-duty spring
- Genuine Case IH components
- Kit includes press wheel support, heavy-duty closing disk support and mounting hardware

Press Wheel

Part No. 87610678

Application: 1200 and 2000 series planters

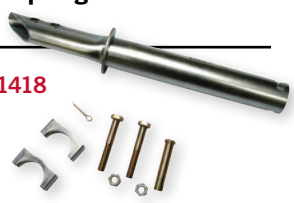
- 6.5" × 12" Press Wheel
- 2000 series planters come in narrow and wide widths

Carrier Wheel Mud Scraper

Part No. 47832716 (12N/16RN)

Application: 2150 planter

Closing Disk Spring Guide Kit



Part No. 84601418

Application: 800, 900, 950, 955, 1200 planters

- Added reinforcement bushings to lower holes and new retention clamps and bolts
- Genuine Case IH components
- Kit includes spring guide, lower pin with cotter pin, retention clamps and hardware

Case IH Nylon/Steel Gauge Wheel Assemblies

Part No. 87604747

- Patented nylon wheel half for extra strength and to help eliminate soil buildup in wheels
- Soil relief groove design holds moist soil turned up by the opener to give seed a firm, moist bed
- Higher crown area helps prevent stubble damage while providing maximum flotation
- Internal supports keep tire from bottoming out under heavy loads
- Longer bearing support reduces wheel wobble and adds life

PART NO.	DESCRIPTION	APPLICATION
87604747	4.5" × 16" assembly	1200 and 2000 series planters
84236944	2.75" × 16" assembly	1200 and 2000 series planters
225349A1	4" × 16" assembly	900-955-1200 ASM/PT planters
87673693	3" × 16" assembly	5400/5500 disk drills

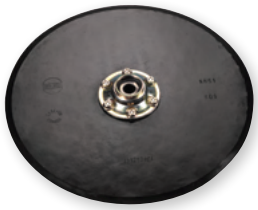
GROUND ENGAING/WEAR PARTS

Opener Disk Assemblies (Bolted Flange)

Part No. B96090 (L.H. with Bolts)
Part No. B96091 (R.H. with Bolts)

Application: 800-955 Cyclo planters

- Earth Metal® disk
- Heavy-duty bearing and flange
- Bolted flange



Part No. B96090
L.H. with Bolts

Planter Bearing/Flange Kit

Part No. B95205 (with Bolts)

Application: Case IH planters and drills using opener disk assemblies 84389196 and 84389195

- Kit includes dust cap
- Bearing is pressed into the flange for easy installation
- Handy package for tool box or farm shop

Row Depth Adjustment Kit

Part No. B96640

Application: 800, 900, 950, 955, 1200 planters

- Easy to adjust
- One-hand operation
- Kit includes handle, hardware and handle retainer clip

Bearing Caps

Part No. B96708 (12 steel dust caps)
Part No. B96709 (12 rubber dust caps)

Application: Fits opener assemblies 84389195 and 84389196 for 800, 900, 950 and 955 planters

Part No. B96709
12 rubber dust caps

Bolt, Cap, Washer Kits

Part No. 88715054 (R.H.)
Part No. 88715055 (L.H.)

Application:
900, 950, 955 planters

- Opener mounting hardware and hubcap

Chain Tensioner Kits

Part No. 87298627A (6-row kit)
Part No. 87298628A (8-row kit)

Application: Early 1200 planters

- Improved performance and reliability
- Easier to reach for maintenance on narrow row machines
- Easier replacement of chain tensioner with one bolt—as compared to two snap rings in a hard-to-reach location
- Speed compensator rolls are more reliable for longer life; orientation is held more true for better chain tracking
- Compensator spindle has a large diameter base to hold the roller true
- Fewer parts on both the chain tensioner and speed compensator

Part No. 87298627A
6-row kit

Hitch Shims

Part No. 48156646 (1/2" thick)
Part No. 48156647 (3/8" thick)

Application:
2140 and 2160 series planter drawbars

- Hitch shims are recommenced to maintain even planter height in varying terrain and during row unit raise/lower

Pneumatic Down-Pressure Assist Spring

Part No. 84158977

Application: 1200 planters

Wheel Mud Scraper Kits

Part No. 84159439 (one 10-15 wheel)

Part No. 84159440 (one 11-22.5 wheel)

Application: 1250/1255 Early Riser planters

- Includes support, hardware, scraper and instructions
- May require holes to be drilled in the wing wheel standards for mounting

Spring Down-Pressure Kit

Part No. 87459131 (14" Linkage)

Part No. 87459135 (20" Linkage)

Application: 1200 planters

Part No. 87459131
14" Linkage

Row Unit Frame

Part No. 84351569

Application: 1200 planters

- Includes hopper and mounting hardware

Mini Hopper Enhancement Kits

Part No. 47532784

Part No. 47556260 (Split row)

Application: 1200PT, 1240, 1250 and 1260 planters

- An easy-to-assemble, quick-attach snorkel that slows down seeds to prevent clogging; fills automatically for normal field operation and manually for plot planting
- Mini hopper enhancement kit tool sold separately (Part No. 47532734)

Part No. 47532784

Talc/Graphite Seed Lubricant

IronGard™ seed lubricant is available for any type of planter, whether gravity or airflow. The proper use of seed lubricant prevents bridging in the hopper and reduces wear on moving parts in the seed meter.

PART NO.	DESCRIPTION	APPLICATIONS
73341461	1-lb. 100% graphite	All makes
73341463	1-lb. 80% talc 20% graphite	All makes
407486R1	1-lb. 100% graphite fine particle size	Cyclo planters
73340733	8-lb. 100% graphite fine particle size	Cyclo planters
73340734	1-lb. 50% talc 50% graphite fine particle size	Case IH ASM and 2000 series planters
73340370	8-lb. 50% talc 50% graphite fine particle size	Case IH ASM and 2000 series planters
73340918	Dispensing cap	8-lb. container

Seed Lubricant Rates

SEED (BU.)	50/50 GRAPHITE/TALC BLEND (CUPS)
2	1/8
5	1/4
6	3/8
8	1/2
10	3/4
15	1

SEED (BU.)	50/50 GRAPHITE/TALC BLEND (CUPS)
20	1-1/4
25	1-1/2
30	2
40	2-1/2
50	3
60	3-1/2

Note: 1 lb. of graphite/talc mixture=approx. 3 cups

Mini Hopper Kit

Part No. 47719459

Application: 2000 series planters

- Includes hopper and mounting hardware

ADVANCED SEED METER PLATES (1200 SERIES PLANTERS ONLY)

Seed Plates by Crop

Reference the chart below and on the next page to find the right seed plate for your crop and seed size. An eight-row planter requires eight seed plates of the same attachment number to run properly.

CROP TYPE	SEED TYPE	DISK DESIGNATION	SEEDS/LB OR RANGE OF SEEDS/LB	NUMBER OF HOLES	HOLE DIAMETER (MM)	HOLE PROFILE	PART NO.
Corn	Small	2450	>2,000	24	5	N	47900189
	Small	3650	>2,000	36	5	N	47900188
	Small	4850	>2,000	48	5	N	47900186
	Small	4855	2,000-2,400	48	5.5	N	47536776
	Small	3655	2,000-2,400	36	5.5	N	47536733
	Small medium	4855	2,000-2,400	48	5.5	N	47536776
	Small medium	3655	2,000-2,400	36	5.5	N	47536733
	Medium large	4855	2,000-2,400	48	5.5	N	47536776
	Medium large	3655	2,000-2,400	36	5.5	N	47536733
	Large	4855	2,000-2,400	48	5.5	N	47536776
	Large	3655	2,000-2,400	36	5.5	N	47536733
	Extra small plateless	4845	3,175	48	4.5	N	47536744
	Low pop narrow row	2455	1,200-2,400	24	5.5	N	47536780
Popcorn/Sweet Corn	Popcorn, small	4830	3,500-4,600	48	3	N	47536770
	Popcorn, small/medium	4840	2,500-3,500	48	4	N	47536764
	Popcorn, large	4855	2,000-2,400	48	5.5	N	47536776
	Popcorn, large	3655	2,000-2,400	36	5.5	N	47536733
	Sweet corn, small	4835	3,850-4,600	48	3.5	N	47536767
	Sweet corn, medium	4845	2,400-3,100	48	4.5	N	47536744
	Sweet corn, large	4855	2,000-2,400	48	5.5	N	47536776
	Sweet corn, large	3655	2,000-2,400	36	5.5	N	47536733
Soybeans	Medium rate	10045-SB	2,000-3,500	100	4.5	L	47536748
	Low rate/narrow row	8045-SB	2,000-3,500	80	4.5	L	47536746
	Medium rate	10035-SB	3,500-4,500	100	3.5	R	47536749
	Low rate/narrow row, small	8035-SB	3,500-4,500	80	3.5	R	47536747
	High rate	13045	2,000-3,500	130	4.5	L	47536778
	High rate, small	13035-SB	3,500-4,500	130	3.5	R	47536750
Sorghum/Milo	Ultra-low rate	2423	7,000-10,500	24	2.3	N	47536762
	Low/medium rate	8023	16,000-19,000	80	2.3	N	47536761
	High rate	12023	16,000-19,000	120	2.3	N	47536761
Small Edible Bean	Navy	8045	2,300-3,000	80	4.5	N	47536745
Medium Edible Bean	Pinto	6055	1,000-2,300	60	5.5	N	47536759
	Green (Snap)	8045-C	1,400-1,800	80	4.5	P	47536740
Large Edible Bean Kidney	Cranberry	6060	1,000	60	6	P	47536758
	Kidney, large	6060	800-1,000	60	6	P	47536758
Sunflower	Small	2423	7,000-10,500	24	2.3	N	47536762
	Medium	2440	4,000-7,000	24	4	N	47536763
	Large	2455	2,000-4,000	24	5.5	N	47536780
Acid Delinted Cotton	Small	8030	5,000-6,300	80	3	N	47536779
	Medium	8030	4,400-5,000	80	3	N	47536779
	Large	8030	4,200-4,400	80	3	N	47536779
	All sizes	6030	4,200-6,300	60	3	N	47536783
	All sizes	8035-DC	4,200-6,300	80	3.5	S	47536781
Acid Delinted High-Residue Cotton	Small	8035	5,000-6,300	80	3.5	N	47536782
	Medium	8035	4,400-5,000	80	3.5	N	47536783
	Large	8035	4,200-4,400	80	3.5	N	47536784

ADVANCED SEED METER PLATES (1200 SERIES PLANTERS ONLY)

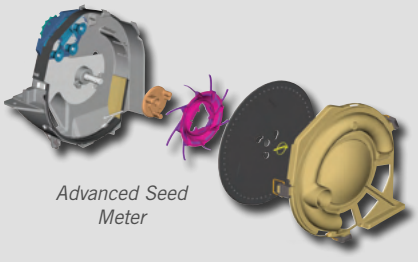
CROP TYPE	SEED TYPE	DISK DESIGNATION	SEEDS/LB OR RANGE OF SEEDS/LB	NUMBER OF HOLES	HOLE DIAMETER (MM)	HOLE PROFILE	PART NO.
Acid Delinted Cotton Hill Drop	Hill drop 2 seeds	40X2/8030	4,200-6,300	80	3	K	47536753
	Hill drop 3 seeds	20X3/6030	4,200-6,300	60	3	K	47536752
	Hill drop 4 seeds	40X4/8030	4,200-6,300	80	3	K	47536754
Sugar Beets Raw & Pelletized	Small	80175	50,000-58,000	80	1.75	M	47536766
	Small	60175	50,000-58,000	60	1.75	M	47536738
	Medium	80175	38,000-50,000	80	1.75	M	47536766
	Medium	60175	38,000-50,000	60	1.75	M	47536738
	Large	8020	23,000-38,000	80	2	M	47536765
	Large	6020	23,000-38,000	60	2	M	47536737
	Pelleted, small	8020	16,000-23,000	80	2	M	47536765
	Pelleted, small	6020	16,000-23,000	60	2	M	47536737
	Pelleted, medium	8020	12,000-16,000	80	2	M	47536765
	Pelleted, medium	6020	12,000-16,000	60	2	M	47536737
	Pelleted, large	8023	8,000-12,000	80	2.3	N	47536761
	Pelleted, large	6023	8,000-12,000	60	2.3	N	47536736
Peanuts	Small	6060	1,000-1,400	60	6	P	47536758
	Medium	4860	800-1,000	48	6	P	47536769
	Large, Virginia	6065	600-800	60	6.5	P	47536756
	Large, Virginia	4865	600-800	48	6.5	P	47536757
Wheat	All sizes	30015	12,000-18,000	300	1.5	T	47536734
Canola	All sizes	14010	90,000-160,000	140	1	T	47536771
Sesame	All sizes	30010	130,000-170,000	300	1	T	47889941
Blank Seed Disk	—	—	—	—	—	—	47536741
Blank Seed Disk with Groove	—	—	—	—	—	—	47536743

Case IH Twin Row Planter Seed Plates

CROP TYPE	NUMBER OF CELLS	PART NO.
Soybean	84	73358643
Soybean	168	73358644
Popcorn/Sunflower	24	73358656
Corn Disc Kit - Includes 1 each of round-small and large and flat large	24	73358645

SEED SPACING

- The Case IH seed meter uses a larger seed plate for slower disk RPMs and more accurate seed placement.
- The Case IH seed meter also uses singulator spools for better singulation across all seed sizes (corn) and accurate population control



Advanced Seed Meter

SEED METERING

Seed Tubes, Sensors and Brushes

PART NO.	DESCRIPTION	APPLICATION
87688051	Seed tube	1200 series planters
84485224	AccuStat sensor	Early Riser 1215, 1225, 1235, 1245, 1255 and 1265 series planters with AFS display
392257A1	Smart seed sensor	1200, 1210, 1220, 1230, 1240, 1250 and 1260 series planters (MY2013 and prior) with AFS display
404831A1	High-rate seed sensor	1200, 1210, 1220, 1230, 1240, 1250 and 1260 series planters with Early Riser II, II or IV monitor
84317050	Seed flow II sensor	Cyclo-Air series planters
1978894C1	High-rate sensor	Cyclo-Air series planters
346290A1	Seed tube brush	20" × 2.5" diameter brush
128817C1	Seed tube brush	12.5" × 1.25" diameter brush
51572119	Large Seed Tube	2000 series planters
84566602	Large Seed Tube Sensor	1200 and 2000 series planters
47924490	Standard Seed Tube	2000 series planters

Agitator Seed Assembly Kit

Part No. 326924A2

Application: 1200 planter 2003 models and models with singular assembly (86994218E)

Singulator Kit

Part No. 86994218

Application: 1200 planters

- Kit includes new style singulator assembly, seed agitator and hardware

Singulator Assembly Kit

Part No. 47375935

Application: 1200 planters

- Provides more precise spool adjustments
- Less maintenance and longer spool life
- Requires new style seed agitator

Seed Meter Cover Assembly

Part No. 48178825

Application: 2000 series planters

- Includes seed meter cover and mounting hardware

Row Unit SpeedTube Precision Planting™ Drive Assembly

Part No. 48152067

- 2000 series planters

1200 SERIES KITS

Planter Brush Kit

Part No. 145156C91

Application: 800, 900, 950, 955 planters

- Complete brush assembly

Brush Kit

Part No. B95586

Application: 1200 planters

- Kit includes straight brush, curved brush and clips
- Convenience pack for one seed meter

Latch Kit

Part No. B95587

Application: 1200 planters

- Kit includes three latches and three latch pins
- Retains cover assembly to motor housing

Door and Latch Kit

Part No. B96694

Application: 1200 planters

- Kit includes door chute and latch pin
- Easy to operate: one-hand opening and closing of the door

Seed Meter Drive Kit

Part No. B96695

Application: 1200 planters

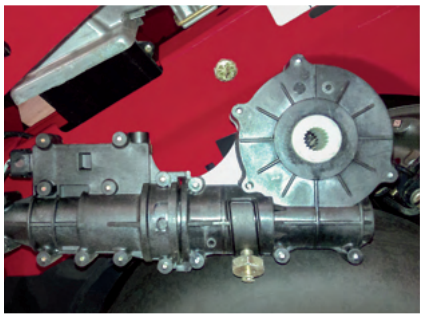
- Kit includes shaft, bearings and retainer ring
- For 2003 and later meters

AccuStat-AccuDrive Cable Kit

Part No. 47815657

Application: 1210 rigid mounted, 1220 rigid trailing, 1230 mounted stacker, 1240 pivot-transport, 1250 front fold trailing (12/16R), 1250 front fold trailing (24R), 1260 front fold trailing

- Converts chain drive seed meter to cable drive
- Eliminates chain and sprocket maintenance
- One kit per row
- Kit requires additional components; see your local dealer



FERTILIZER/CHEMICAL APPLICATION

Hinge Kit

Part No. B94741

Application: 800, 900, 950, 955 planters, seed and chemical hoppers

- Kit includes all components and hardware in one package

Roller, Feed

Part No. B94740

Application: 800, 900, 950, 955, 1200 planters

- Granular chemical

Earth Metal® Double Disk Fertilizer Opener

Part No. 141464C92

Application: 800 – 1200 planters

Liquid Fertilizer EVA Tubing

PART NO.	DESCRIPTION
25630601	3/8" × 166'
25630602	3/8" × 250'
25630801	1/2" × 166'

Fertilizer Knives

Part No. 1344517C2 (Liquid)

Part No. 108120A1 (Dry)

Application:
1200 series

- Cast-chromium alloy knives for increased life and reduced service time

Earth Metal® Coulters

Trust the wide selection of planter coulters from your Case IH dealer—many of which are made from our proprietary, long-lasting Earth Metal steel for quality you can trust.

PART NO.	DESCRIPTION
321165A2	17" rippled
431542A1	14.7" 25-wave
130800A2	14.3" 8-wave
87584040	15" smooth

Hydraulic Pump Assembly

Part No. 51571395

Application:
2000 series planters

- Liquid Fertilizer Pump Assembly

LIQUID FERTILIZER APPLICATION GUIDE – ORIFICE SELECTION

Accurate orifice selection is critical to ensure your desired liquid fertilizer rate is applied evenly across each row while ensuring the liquid fertilizer system operates at an acceptable pressure.

Perform the following four steps to identify the best orifice for your operation:

1. Identify your operational parameters.
2. Identify the liquid conversion factor for your liquid fertilizer product(s).
3. Calculate your adjusted flow per minute per orifice.
4. Use the orifice chart to identify the best orifice option for your application.

NOTE: *Because different fertilizer products, rates, ground speeds, and row spacing are often used for different crop types, it is important to perform the orifice selection process for each crop type prior to use.*

Step 1 – Identify your operational parameters

To select the best orifice to meet the needs of your dynamic operation, identify the following eight operational parameters:

1. Minimum planting speed. Example: 7.2 km/h (4.5 mph)
2. Typical planting speed. Example: 9.7 km/h (6 mph)
3. Maximum planting speed. Example: 12.9 km/h (8 mph)
4. Spacing between applicators. Example: 762 mm (30 in)
5. Minimum application rate. Example: 84.2 L/ha (9 US gal/ac)
6. Typical application rate. Example: 93.5 L/ha (10 US gal/ac)
7. Maximum application rate. Example: 112.2 L/ha (12 US gal/ac)
8. Fertilizer weight per volume or specific gravity. Example: 28% Nitrogen is 10.65 lb/US gal or 1.13 specific gravity

NOTE: *Contact your fertilizer supplier for weight-per-volume or specific gravity information. If this information is not available, accurately weigh 1 US gal (3.83 L). (Be sure not to include the weight of the container. Use only the liquid weight.)*

NOTE: *When identifying minimum, typical, and maximum speeds, be sure to consider non-typical planting conditions such as fence rows, tough conditions, incorrect tractor gear, approaching inclement weather, etc*

LIQUID FERTILIZER APPLICATION GUIDE – ORIFICE SELECTION

Step 2 – Identify the liquid conversion factor for your liquid fertilizer product(s)

Flow rate through an orifice is directly correlated to the pressure against the orifice. Orifice chart flow rates represent the flow of water through the orifice into air at atmospheric pressure. Because liquid fertilizer products are different thicknesses than water, a conversion factor, which correlates the flow of fertilizer volume to the flow of water volume, is required before selecting an orifice. The identified conversion factor will be used in step three of the orifice selection process.

Use the charts below to determine the liquid conversion factor for your fertilizer solution by locating the weight or specific gravity that most closely matches your fertilizer solution.

NOTE: *If your fertilizer falls between weight categories, estimate the difference between the two conversion factors given.*

Liquid conversion factor identification – United States Customary System (USCS)

WEIGHT OF SOLUTION	SPECIFIC GRAVITY	CONVERSION FACTOR
7.0 lb/US gal	0.84	0.92
8.0 lb/US gal	0.96	0.98
8.34 lb/US gal (water)	1.00	1.00
9.0 lb/US gal	1.08	1.04
10.0 lb/US gal	1.20	1.10
10.65 lb/US gal (28% nitrogen)	1.28	1.13
11.0 lb/US gal	1.32	1.15
12.0 lb/US gal	1.44	1.20
14.0 lb/US gal	1.68	1.30

Liquid conversion factor identification – International System of Units (SI)

WEIGHT OF SOLUTION	SPECIFIC GRAVITY	CONVERSION FACTOR
0.84 kg/L	0.84	0.92
0.96 kg/L	0.96	0.98
1.00 kg/L (water)	1.00	1.00
1.08 kg/L	1.08	1.04
1.20 kg/L	1.20	1.10
1.28 kg/L (28% nitrogen)	1.28	1.13
1.32 kg/L	1.32	1.15
1.44 kg/L	1.44	1.20
1.68 kg/L	1.68	1.30

NOTE: *Colder or hotter temperature can affect fertilizer products, causing them to behave thicker or thinner. If temperature swings are common during your planting season, it is recommended to ask your fertilizer supplier about the impact of temperature.*

LIQUID FERTILIZER APPLICATION GUIDE – ORIFICE SELECTION

Step 3 – Calculate your adjusted flow per minute per orifice rates

The in-field application rate of a liquid fertilizer system is split by the orifices installed in the nozzle bodies and fed to the applicator on each row unit. The adjusted flow per minute per orifice value is needed when looking at the orifice chart to select the best option.

To ensure an orifice is selected that will accommodate all your application rate and speed scenarios, it is best to calculate three values, including:

1. Minimum speed at minimum application rate
2. Typical speed at typical application rate
3. Maximum speed at maximum application rate

Use the following formula (USCS or SI units) to calculate your adjusted flow per minute per orifice rates:

USCS units formula:

Adjusted gallons per minute per orifice = (conversion factor * gallons per acre * miles per hour * applicator spacing in inches) / 5,940

SI units formula:

Adjusted liters per minute per orifice = (conversion factor * liters per hectare * kilometers per hour * applicator spacing in centimeters) / 60,000

NOTE: *On a split-row planter that may plant with either 76.2 cm (30 in) or 38.1 cm (15 in) row spacing, if you are applying fertilizer only on the 76.2 cm (30 in) spaced (odd numbered) row units, your applicator spacing for the above equations will be 76.2 cm (30 in). However, if you are applying fertilizer to all row units, then your applicator spacing for the above equations will be 38.1 cm (15 in).*

Example 1 (minimum / minimum):

- USCS units: (1.13 conversion factor * 9.0 gal/ac * 4.5 mph * 30 in) / 5,940 = 0.231 adjusted gallons per minute per orifice
- SI units: (1.13 conversion factor * 84.2 L/ha * 7.2 km/h * 76.2 cm) / 60,000 = 0.870 adjusted liters per minute per orifice

Example 2 (typical / typical):

- USCS units: (1.13 conversion factor * 10 gal/ac * 6 mph * 30 in) / 5,940 = 0.342 adjusted gallons per minute per orifice
- SI units: (1.13 conversion factor * 93.5 L/ha * 9.7 km/h * 76.2 cm) / 60,000 = 1.302 adjusted liters per minute per orifice

Example 3 (maximum / maximum):

- USCS units: (1.13 conversion factor * 12 gal/ac * 8 mph * 30 in) / 5,940 = 0.548 adjusted gallons per minute per orifice
- SI units: (1.13 conversion factor * 112.2 L/ha * 12.9 km/h * 76.2 cm) / 60,000 = 2.077 adjusted liters per minute per orifice

LIQUID FERTILIZER APPLICATION GUIDE – ORIFICE SELECTION

Step 4 – Use the orifice chart to identify the best orifice option for your application

By selecting an orifice using the minimum/minimum, typical/typical, maximum/maximum process, you can identify your lowest, typical, and highest system operating pressure you will encounter in the field, and select an orifice that keeps you within the optimal pressure range for the liquid fertilizer system as frequently as possible. The best orifice is one that can maintain system pressure within the optimal pressure range of 138 – 414 kPa (20 – 60 psi). If this is not achievable, the goal should be to select an orifice within the range of 103 – 655 kPa (15 – 95 psi), regardless of the in-field speed and application rate combination.

NOTE: *If a single orifice cannot accommodate your range of potential speeds and rates, it is advised to select the orifice based on the most common operating parameters.*

NOTE: *A system pressure of less than 103 kPa (15 psi) may cause the liquid fertilizer nozzle body spring check valves to open and close erratically, resulting in inconsistent flow to the row applicators.*

NOTE: *A system pressure of greater than 655 kPa (95 psi) will cause a high pressure alarm within the planter display and present a greater chance for leaks across the liquid fertilizer system.*

Use the orifice chart to compare your minimum/minimum, typical/typical, and maximum/maximum adjusted flow per minute per orifice values to the values adjacent to each orifice number. Identify the orifice that allows the minimum/minimum, average/average, and maximum/maximum adjusted flow per minute per orifice values to reside within the optimal pressure range of 138 – 414 kPa (20 – 60 psi) (if possible), but at least within the absolute pressure range of 103 – 655 kPa (15 – 95 psi).

Example – USCS units

Using our calculations from step three, we need an orifice that can accommodate gallons per minute per orifice rates of 0.231, 0.342, and 0.548 (minimum/minimum, typical/typical, and maximum/maximum). Referring to the orifice table on the following pages (see excerpt below), it is found that both a size 54 and size 55 orifice will keep system pressure within the 15 – 95 psi maximum range at all times, while also keeping the system pressure within the 20 – 60 psi optimal range during typical speed and application rates. In this example, choosing either orifice would be acceptable.

Orifice table excerpt:

ORIFICE SIZE	PART NUMBER	GALLONS PER MINUTE (GPM) PER ORIFICE AT POUNDS PER SQUARE INCH (PSI)								
		10 PSI	15 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI	80 PSI	100 PSI
4916–54	51404615	.180	.221	.255	.312	.360	.403	.441	.509	.569
4916–55	51404616	.188	.231	.266	.326	.376	.421	.461	.532	.595

Example – SI units

Using our calculations from step three, we need an orifice that can accommodate liters per minute per orifice rates of 0.870, 1.302, and 2.077 (minimum/minimum, typical/typical, and maximum/maximum). Referring to the orifice table on the following pages (see excerpt below), it is found that both a size 54 and size 55 orifice will keep system pressure within the 1.03 – 6.55 bar maximum range at all times, while also keeping the system pressure within the 1.38 – 4.14 bar optimal range during typical speed and application rates. In this example, choosing either orifice would be acceptable.

Orifice table excerpt:

ORIFICE SIZE	PART NUMBER	LITERS PER MINUTE PER ORIFICE AT PRESSURE (BAR)									
		0.5 BAR	1.0 BAR	1.5 BAR	2.0 BAR	2.5 BAR	3 BAR	4 BAR	5 BAR	6 BAR	7 BAR
4916–54	51404615	0.5800	0.820	1.005	1.16	1.297	1.421	1.640	1.834	2.009	2.170
4916–55	51404616	0.6100	0.863	1.057	1.22	1.364	1.494	1.725	1.929	2.113	2.282

LIQUID FERTILIZER APPLICATION GUIDE

Orifice Table – USCS Units

ORIFICE SIZE	PART NO.	GALLONS PER MINUTE (GPM) PER ORIFICE AT POUNDS PER SQUARE INCH (PSI) (*)								
		10 PSI	15 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI	70 PSI	80 PSI
4916–8	51404555	.0042	.0052	.0059	.0073	.0085	.0095	.010	.012	.013
4916–10	51404556	.0065	.0080	.0092	.011	.013	.015	.016	.018	.021
4916–12	51404561	.0094	.011	.013	.016	.019	.021	.023	.027	.030
4916–14	51404567	.013	.016	.018	.022	.025	.028	.031	.036	.040
4916–15	51404571	.014	.018	.020	.025	.029	.032	.035	.041	.045
4916–16	51404574	.016	.020	.023	.028	.033	.037	.040	.046	.052
4916–18	51404581	.021	.026	.030	.036	.042	.047	.051	.059	.066
4916–20	51404585	.026	.032	.037	.045	.052	.058	.064	.073	.082
4916–22	51404588	.031	.038	.043	.053	.061	.068	.075	.087	.097
4916–24	51404590	.037	.045	.052	.064	.074	.083	.091	.105	.117
4916–25	51404591	.040	.049	.056	.069	.079	.089	.097	.112	.125
4916–26	51404593	.043	.052	.061	.074	.086	.096	.105	.121	.135
4916–27	51404594	.045	.056	.064	.078	.091	.101	.111	.128	.143
4916–28	51404595	.049	.060	.069	.085	.098	.110	.120	.139	.155
4916–29	51404596	.054	.066	.076	.093	.107	.120	.132	.152	.170
4916–30	51404597	.057	.070	.081	.099	.114	.128	.140	.162	.181
4916–31	51404598	.061	.075	.087	.106	.122	.137	.150	.173	.194
4916–32	51404599	.067	.082	.095	.116	.134	.150	.165	.190	.212
4916–34	51404600	.074	.090	.104	.127	.147	.164	.180	.208	.232
4916–35	51404601	.078	.096	.111	.136	.157	.175	.192	.222	.248
4916–37	51404603	.086	.105	.121	.149	.171	.192	.210	.242	.271
4916–39	51404604	.095	.117	.135	.165	.190	.213	.233	.269	.300
4916–40	51404605	.102	.125	.144	.177	.204	.228	.250	.289	.323
4916–41	51404606	.105	.129	.149	.182	.211	.236	.258	.298	.333
4916–43	51404607	.115	.141	.163	.199	.230	.257	.282	.326	.364
4916–45	51404608	.125	.153	.177	.216	.250	.279	.306	.353	.395
4916–46	51404609	.135	.165	.191	.233	.269	.301	.330	.381	.426
4916–47	51404610	.137	.168	.194	.238	.274	.307	.336	.388	.434
4916–48	51404611	.143	.175	.202	.247	.286	.320	.350	.404	.452
4916–49	51404612	.147	.181	.208	.255	.295	.330	.361	.417	.466
4916–51	51404613	.165	.202	.233	.285	.329	.368	.403	.465	.520
4916–52	51404614	.167	.205	.237	.290	.335	.374	.410	.473	.529
4916–54	51404615	.180	.221	.255	.312	.360	.403	.441	.509	.569
4916–55	51404616	.188	.231	.266	.326	.376	.421	.461	.532	.595
4916–57	51404617	.200	.245	.283	.347	.400	.447	.490	.566	.633
4916–59	51404618	.216	.265	.306	.375	.433	.484	.530	.612	.684
4916–61	51404619	.233	.285	.329	.403	.465	.520	.570	.658	.736
4916–63	51404620	.245	.300	.346	.424	.490	.548	.600	.693	.755
4916–65	51404621	.261	.320	.369	.452	.522	.583	.639	.738	.825
4916–67	51404622	.278	.340	.393	.481	.555	.620	.680	.785	.878
4916–68	51404623	.286	.351	.405	.496	.572	.640	.701	.809	.905
4916–70	51404624	.306	.375	.432	.530	.612	.684	.749	.865	.967
4916–72	51404625	.320	.392	.453	.554	.640	.716	.784	.905	1.01

LIQUID FERTILIZER APPLICATION GUIDE

Orifice Table – USCS Units

ORIFICE SIZE	PART NO.	GALLONS PER MINUTE (GPM) PER ORIFICE AT POUNDS PER SQUARE INCH (PSI) (*)								
		10 PSI	15 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI	70 PSI	80 PSI
4916–73	51404626	.330	.404	.467	.571	.660	.738	.808	.933	1.04
4916–75	51404627	.347	.425	.491	.601	.694	.776	.850	.981	1.10
4916–78	51404628	.385	.472	.544	.667	.770	.861	.943	1.09	1.22
4916–80	51404629	.396	.486	.561	.687	.793	.886	.971	1.12	1.25
4916–81	51404630	.410	.503	.580	.711	.821	.917	1.01	1.16	1.30
4916–83	51404631	.449	.550	.625	.777	.897	1.00	1.10	1.27	1.42
4916–86	51404632	.469	.575	.664	.813	.939	1.05	1.15	1.33	1.48
4916–89	51404633	.490	.600	.693	.849	.980	1.10	1.20	1.39	1.55
4916–91	51404635	.523	.640	.739	.905	1.05	1.17	1.28	1.48	1.65
4916–93	51404636	.547	.670	.774	.948	1.09	1.22	1.34	1.54	1.73
4916–95	51404637	.572	.700	.808	.990	1.14	1.28	1.40	1.62	1.81
4916–98	51404639	.625	.765	.883	1.08	1.25	1.40	1.53	1.77	1.98
4916–103	51404557	.653	.800	.924	1.13	1.31	1.46	1.60	1.84	2.07
4916–107	51404558	.735	.900	1.04	1.27	1.47	1.64	1.80	2.08	2.32
4916–110	51404559	.776	.950	1.10	1.34	1.55	1.73	1.90	2.19	2.45
4916–115	51404560	.855	1.05	1.21	1.48	1.71	1.91	2.10	2.42	2.70
4916–120	51404562	.892	1.09	1.26	1.55	1.78	1.99	2.19	2.52	2.82
4916–125	51404563	.980	1.20	1.39	1.70	1.96	2.19	2.40	2.77	3.10
4916–128	51404564	1.02	1.25	1.44	1.77	2.04	2.28	2.50	2.88	3.23
4916–132	51404565	1.09	1.34	1.55	1.90	2.19	2.45	2.68	3.09	3.46
4916–136	51404566	1.19	1.46	1.68	2.06	2.38	2.66	2.91	3.36	3.76
4916–140	51404568	1.27	1.55	1.79	2.19	2.53	2.83	3.10	3.57	4.00
4916–144	51404569	1.31	1.61	1.85	2.27	2.62	2.93	3.21	3.71	4.14
4916–147	51404570	1.35	1.65	1.91	2.33	2.69	3.01	3.30	3.81	4.26
4916–151	51404572	1.47	1.80	2.08	2.55	2.94	3.29	3.60	4.16	4.65
4916–156	51404573	1.55	1.90	2.19	2.69	3.10	3.47	3.80	4.39	4.90
4916–161	51404575	1.63	2.00	2.31	2.83	3.27	3.65	4.00	4.62	5.16
4916–166	51404576	1.72	2.10	2.43	2.97	3.43	3.83	4.20	4.85	5.42
4916–170	51404577	1.84	2.26	2.60	3.19	3.68	4.12	4.51	5.21	5.82
4916–171	51404578	1.88	2.30	2.65	3.25	3.75	4.20	4.60	5.31	5.94
4916–172	51404579	1.92	2.35	2.71	3.32	3.84	4.29	4.70	5.43	6.07
4916–177	51404580	2.00	2.45	2.83	3.46	4.00	4.47	4.90	5.66	6.32
4916–182	51404582	2.08	2.55	2.94	3.61	4.16	4.66	5.10	5.80	6.58
4916–187	51404583	2.20	2.70	3.12	3.82	4.41	4.93	5.40	6.23	6.97
4916–196	51404584	2.45	3.00	3.46	4.24	4.90	5.48	6.00	6.93	7.75
4916–205	51404586	2.65	3.25	3.75	4.60	5.31	5.93	6.50	7.51	8.39
4916–218	51404587	2.98	3.65	4.21	5.16	5.96	6.66	7.30	8.43	9.42
4916–234	51404589	3.47	4.25	4.91	6.01	6.94	7.76	8.50	9.81	11.0
4916–250	51404592	4.00	4.90	5.66	6.93	8.00	8.94	9.80	11.3	12.6

LIQUID FERTILIZER APPLICATION GUIDE

Orifice Table – SI Units

ORIFICE SIZE	PART NO.	LITERS PER MINUTE PER ORIFICE AT PRESSURE (BAR) (*)									
		0.5 BAR	1.0 BAR	1.5 BAR	2.0 BAR	2.5 BAR	3 BAR	4 BAR	5 BAR	6 BAR	7 BAR
4916–8	51404555	0.013	0.018	0.023	0.026	0.029	0.032	0.037	0.041	0.045	0.049
4916–10	51404556	0.021	0.030	0.036	0.042	0.047	0.051	0.059	0.066	0.073	0.079
4916–12	51404561	0.031	0.044	0.054	0.062	0.069	0.076	0.088	0.098	1.107	0.116
4916–14	51404567	0.040	0.057	0.069	0.080	0.089	0.098	0.113	0.126	0.139	0.150
4916–15	51404571	0.045	0.064	0.078	0.090	0.101	0.110	0.127	0.142	0.156	0.168
4916–16	51404574	0.053	0.075	0.092	0.106	0.119	0.130	0.150	0.168	0.184	0.198
4916–18	51404581	0.069	0.098	0.120	0.138	0.154	0.169	0.195	0.218	0.239	0.258
4916–20	51404585	0.086	0.122	0.149	0.172	0.192	0.211	0.243	0.272	0.298	0.322
4916–22	51404588	0.098	0.139	0.170	0.196	0.219	0.240	0.277	0.310	0.339	0.367
4916–24	51404590	0.120	0.170	0.208	0.240	0.268	0.294	0.339	0.379	0.416	0.449
4916–25	51404591	0.130	0.184	0.225	0.260	0.291	0.318	0.368	0.411	0.450	0.486
4916–26	51404593	0.140	0.198	0.242	0.280	0.313	0.343	0.396	0.443	0.485	0.524
4916–27	51404594	0.150	0.212	0.260	0.300	0.335	0.367	0.424	0.474	0.520	0.561
4916–28	51404595	0.160	0.226	0.277	0.320	0.358	0.392	0.453	0.506	0.554	0.599
4916–29	51404596	0.180	0.255	0.312	0.360	0.402	0.441	0.509	0.569	0.624	0.673
4916–30	51404597	0.185	0.262	0.320	0.370	0.414	0.453	0.523	0.585	0.641	0.692
4916–31	51404598	0.200	0.283	0.346	0.400	0.447	0.490	0.566	0.632	0.693	0.748
4916–32	51404599	0.220	0.311	0.381	0.440	0.492	0.539	0.622	0.696	0.762	0.823
4916–34	51404600	0.240	0.339	0.416	0.480	0.537	0.588	0.679	0.759	0.831	0.898
4916–35	51404601	0.250	0.354	0.433	0.500	0.559	0.612	0.707	0.791	0.866	0.935
4916–37	51404603	0.280	0.396	0.485	0.560	0.626	0.686	0.792	0.885	0.970	1.048
4916–39	51404604	0.310	0.438	0.537	0.620	0.693	0.759	0.877	0.980	1.074	1.160
4916–40	51404605	0.330	0.467	0.572	0.660	0.738	0.808	0.933	1.044	1.143	1.235
4916–41	51404606	0.340	0.481	0.589	0.680	0.760	0.833	0.962	1.075	1.178	1.272
4916–43	51404607	0.370	0.523	0.641	0.740	0.827	0.906	1.047	1.170	1.282	1.384
4916–45	51404608	0.400	0.566	0.693	0.800	0.894	0.980	1.131	1.265	1.386	1.497
4916–46	51404609	0.440	0.622	0.762	0.880	0.984	1.078	1.245	1.391	1.524	1.646
4916–47	51404610	0. 450	0.636	0.779	0. 900	1.006	1.102	1.273	1.423	1.559	1.684
4916–48	51404611	0.460	0.651	0.797	0. 920	1.029	1.127	1.301	1.455	1.593	1.721
4916–49	51404612	0.470	0.665	0.814	0. 940	1.051	1.151	1.329	1.486	1.628	1.759
4916–51	51404613	0.530	0.750	0.918	1.060	1.185	1.298	1.499	1.676	1.836	1.983
4916–52	51404614	0.540	0.764	0.935	1.080	1.207	1.323	1.527	1.708	1.871	2.020
4916–54	51404615	0.580	0.820	1.005	1.160	1.297	1.421	1.640	1.834	2.009	2.170
4916–55	51404616	0.610	0.863	1.057	1.220	1.364	1.494	1.725	1.929	2.113	2.282
4916–57	51404617	0.650	0.919	1.126	1.300	1.453	1.592	1.838	2.055	2.252	2.432
4916–59	51404618	0.700	0.990	1.212	1.400	1.565	1.715	1.980	2.214	2.425	2.619
4916–61	51404619	0.750	1.061	1.299	1.500	1.677	1.837	2.121	2.372	2.598	2.806
4916–63	51404620	0.790	1.117	1.368	1.580	1.766	1.935	2.234	2.498	2.737	2.956
4916–65	51404621	0.840	1.188	1.455	1.680	1.878	2.058	2.376	2.656	2.910	3.143
4916–67	51404622	0.890	1.259	1.542	1.780	1.990	2.180	2.517	2.814	3.083	3.330
4916–68	51404623	0.920	1.301	1.593	1.840	2.057	2.254	2.602	2.909	3.187	3.442
4916–70	51404624	0.990	1.400	1.715	1.980	2.214	2.425	2.800	3.131	3.429	3.704
4916–72	51404625	1.030	1.457	1.784	2.060	2.303	2.523	2.913	3.257	3.568	3.854

LIQUID FERTILIZER APPLICATION GUIDE

Orifice Table – SI Units

ORIFICE SIZE	PART NO.	LITERS PER MINUTE PER ORIFICE AT PRESSURE (BAR) (*)									
		0.5 BAR	1.0 BAR	1.5 BAR	2.0 BAR	2.5 BAR	3 BAR	4 BAR	5 BAR	6 BAR	7 BAR
4916–73	51404626	1.070	1.513	1.853	2.140	2.393	2.621	3.026	3.384	3.707	4.004
4916–75	51404627	1.120	1.584	1.940	2.240	2.504	2.743	3.168	3.542	3.880	4.191
4916–78	51404628	1.240	1.754	2.148	2.480	2.773	3.037	3.507	3.921	4.295	4.640
4916–80	51404629	1.280	1.810	2.217	2.560	2.862	3.135	3.620	4.048	4.434	4.789
4916–81	51404630	1.320	1.867	2.286	2.640	2.952	3.233	3.734	4.174	4.573	4.939
4916–83	51404631	1.450	2.051	2.511	2.900	3.242	3.552	4.101	4.585	5.023	5.425
4916–86	51404632	1.520	2.150	2.633	3.040	3.399	3.723	4.299	4.807	5.265	5.687
4916–89	51404633	1.580	2.234	2.737	3.160	3.533	3.870	4.469	4.996	5.473	5.912
4916–91	51404635	1.680	2.376	2.910	3.360	3.757	4.115	4.752	5.313	5.820	6.286
4916–93	51404636	1.760	2.489	3.048	3.520	3.935	4.311	4.978	5.566	6.097	6.585
4916–95	51404637	1.840	2.602	3.187	3.680	4.114	4.507	5.204	5.819	6.374	6.885
4916–98	51404639	2.010	2.843	3.481	4.020	4.494	4.923	5.685	6.356	6.963	7.521
4916–103	51404557	2.100	2.970	3.637	4.200	4.696	5.144	5.940	6.641	7.275	7.857
4916–107	51404558	2.360	3.338	4.088	4.720	5.277	5.781	6.675	7.463	8.175	8.830
4916–110	51404559	2.500	3.536	4.330	5.000	5.590	6.124	7.071	7.906	8.660	9.354
4916–115	51404560	2.760	3.903	4.780	5.520	6.172	6.761	7.806	8.728	9.561	10.327
4916–120	51404562	2.870	4.059	4.971	5.740	6.418	7.030	8.118	9.076	9.942	10.739
4916–125	51404563	3.160	4.469	5.473	6.320	7.066	7.740	8.938	9.993	10.947	11.824
4916–128	51404564	3.290	4.653	5.698	6.580	7.357	8.059	9.306	10.404	11.397	12.310
4916–132	51404565	3.530	4.992	6.114	7.060	7.893	8.647	9.984	11.163	12.228	13.208
4916–136	51404566	3.830	5.416	6.634	7.660	8.564	9.382	10.833	12.112	13.268	14.331
4916–140	51404568	4.080	5.770	7.067	8.160	9.123	9.994	11.540	12.902	14.134	15.266
4916–144	51404569	4.220	5.968	7.309	8.440	9.436	10.337	11.936	13.345	14.619	15.790
4916–147	51404570	4.340	6.138	7.517	8.680	9.705	10.631	12.275	13.724	15.034	16.239
4916–151	51404572	4.740	6.703	8.210	9.480	10.599	11.611	13.407	14.989	16.420	17.735
4916–156	51404573	5.010	7.085	8.678	10.020	11.203	12.272	14.170	15.843	17.355	18.746
4916–161	51404575	5.260	7.439	9.111	10.520	11.762	12.884	14.878	16.634	18.221	19.681
4916–166	51404576	5.530	7.821	9.578	11.060	12.365	13.546	15.641	17.487	19.156	20.691
4916–170	51404577	5.940	8.400	10.288	11.880	13.282	14.550	16.801	18.784	20.577	22.225
4916–171	51404578	6.050	8.556	10.479	12.100	13.528	14.819	17.112	19.132	20.958	22.637
4916–172	51404579	6.180	8.740	10.704	12.360	13.819	15.138	17.480	19.543	21.408	23.123
4916–177	51404580	6.450	9.122	11.172	12.900	14.423	15.799	18.243	20.397	22.343	24.134
4916–182	51404582	6.710	9.489	11.622	13.420	15.004	16.436	18.979	21.219	23.244	25.107
4916–187	51404583	7.110	10.055	12.315	14.220	15.898	17.416	20.110	22.484	24.630	26.603
4916–196	51404584	7.890	11.158	13.666	15.780	17.643	19.326	22.316	24.950	27.332	29.522
4916–205	51404586	8.550	12.092	14.809	17.100	19.118	20.943	24.183	27.037	29.618	31.991
4916–218	51404587	9.600	13.576	16.628	19.200	21.466	23.515	27.153	30.358	33.255	35.920
4916–234	51404589	11.200	15.839	19.399	22.400	25.044	27.434	31.678	35.418	38.798	41.907
4916–250	51404592	12.900	18.243	22.343	25.800	28.845	31.598	36.487	40.793	44.687	48.267

CHAINS

ALL CHAINS ARE MADE IN THE USA

Planter Chains for 1200 Case IH ASM Planter

STANDARD CHAIN PART NO.	NICKEL CHAIN PART NO.	DESCRIPTION	CHAIN ASSEMBLY (INCLUDES ONE CONNECTOR)
84373804P	—	Row unit meter drive	#41 – 120 links
84485909P	84485909N	Crossover drive 8R-12R stacker	#40 – 89 links
84485910P	—	Crossover drive 8R-12R stacker	#40 – 75 links
84485911P	84485911N	Crossover drive 8R-12R stacker	#40 – 73 links
84485912P	84485912N	Crossover drive 8R-12R stacker	#40 – 67 links
87417442P	—	ASM meter drive chain-1200PT	#41 – 160 links
87504325P	—	Liquid fertilizer piston pump drive on 6R-8R ridge trailing	#2040 – 96 links
84485911P	84485911N	Drive chain on 8R and 12R mounted stacker	#40 – 74 links
84485912P	84485912N	Drive chain on 8R and 12R mounted stacker	#40 – 68 links
84485909P	84485909N	Drive chain on 8R and 12R mounted stacker	#40 – 91 links
84485910P	84485910N	Drive chain on 8R and 12R mounted stacker	#40 – 77 links
1277739C91P	—	Drive wheel chain on 16RN mechanical drive	#2050 – 46 links
1277740C91P	—	Drive wheel chain on LH 6RN, 8RN, 8RW, 12R, 16RN mechanical drive	#2050 – 56 links
137465C92P	—	Secondary fertilizer drive	#2040 – 58 links
149569C3P	—	Squeeze pump drive	#2040 – 101 links
332417A2P	—	Transmission drive chain, with 3-piece coupled drive shaft	#40 – 116 links
336670A3P	—	Crossover drive-mounted stacker	#41 – 58 links
352954A1P	—	Row unit with standard linkage	#41 – 144 links
448252A1P	—	Crossover drive chain on 12RW mounted stacker	#40 – 62 links
448253A1P	—	Crossover drive chain on 8RW and 12RN mounted stacker	#40 – 59 links

Planter Chains for Early Riser 1210-1220

STANDARD CHAIN PART NO.	NICKEL CHAIN PART NO.	DESCRIPTION	CHAIN ASSEMBLY (INCLUDES ONE CONNECTOR)
87504325P	—	Liquid fertilizer piston pump drive on 6R-8R ridge trailing	#2040 – 96 links
84425475P	84425475N	Mechanical transmission drive	#50 – 90 links
84425476P	84425476N	Transmission drive chain	#50 – 78 links
1277739C91P	—	Drive wheel chain on 16RN mechanical drive	#2050 – 46 links
1277740C91P	—	Drive wheel chain on LH 6RN, 8RN, 8RW, 12R, 16RN mechanical drivec	#2050 – 56 links
137465C92P	—	Secondary fertilizer drive	#2040 – 58 links
332417A2P	—	Transmission drive chain, with 3-piece coupled drive shaft	#40 – 116 links

CHAINS

ALL CHAINS ARE MADE IN THE USA

Planter Chains for Early Riser 1230

STANDARD CHAIN PART NO.	NICKEL CHAIN PART NO.	DESCRIPTION	CHAIN ASSEMBLY (INCLUDES ONE CONNECTOR)
84373804P	—	Row unit meter drive	#41 – 120 links
84485909P	84485909N	Crossover drive 8R-12R stacker	#40 – 89 links
84485910P	—	Crossover drive 8R-12R stacker	#40 – 75 links
84485911P	84485911N	Crossover drive 8R-12R Stacker	#40 – 73 links
84485912P	84485912N	Crossover drive 8R-12R stacker	#40 – 67 links
84485911P	84485911N	Drive chain on 8R and 12R mounted stacker	#40 – 74 links
84485912P	84485912N	Drive chain on 8R and 12R mounted stacker	#40 – 68 links
84485909P	84485909N	Drive chain on 8R and 12R mounted stacker	#40 – 91 links
84485910P	84485910N	Drive chain on 8R and 12R mounted stacker	#40 – 77 links
84425475P	84425475N	Mechanical transmission drive	#50 – 90 links
84425476P	84425476N	Transmission drive chain	#50 – 78 links
1277739C91P	—	Drive wheel chain on 16RN mechanical drive	#2050 – 46 links
1277740C91P	—	Drive wheel chain on LH 6RN, 8RN, 8RW, 12R, 16RN mechanical drive	#2050 – 56 links
332417A2P	—	Transmission drive chain, with 3-piece coupled drive shaft	#40 – 116 links
352954A1P	—	Row unit with standard linkage	#41 – 144 links
448252A1P	—	Crossover drive chain on 12RW mounted stacker	#40 – 62 links
448253A1P	—	Crossover drive chain on 8RW and 12RN mounted stacker	#40 – 59 links

Planter Chains for Early Riser 1240

STANDARD CHAIN PART NO.	NICKEL CHAIN PART NO.	DESCRIPTION	CHAIN ASSEMBLY (INCLUDES ONE CONNECTOR)
84373804P	—	Row unit meter drive	#41 – 120 links
84387534P	84387534N	Hydraulic seed drive chain on 12R and 16R	#40 – 84 links
87417442P	—	ASM meter drive chain 1200PT	#41 – 160 links
352954A1P	—	Row unit with standard linkage	#41 – 144 links

Planter Chains for Early Riser 1245

STANDARD CHAIN PART NO.	NICKEL CHAIN PART NO.	DESCRIPTION	CHAIN ASSEMBLY (INCLUDES ONE CONNECTOR)
84373804P	—	Row unit meter drive	#41 – 120 links
84387534P	84387534N	Hydraulic seed drive chain on 12R and 16R	#40 – 84 links

CHAINS

ALL CHAINS ARE MADE IN THE USA

Planter Chains for Early Riser 1250

STANDARD CHAIN PART NO.	NICKEL CHAIN PART NO.	DESCRIPTION	CHAIN ASSEMBLY (INCLUDES ONE CONNECTOR)
84370996P	84370996N	Hydraulic drive transmission chain on 24R	#50 – 62 links
84373804P	—	Row unit meter drive	#41 – 120 links
84387533P	84387533N	Meter system drive crossover chain for 12R and 16R	#40 – 72 links
84387534P	84387534N	Hydraulic seed drive chain on 12R and 16R	#40 – 84 links
84393494P	84393494N	Crossover drive 24R	#40 – 69 links
84393498P	—	Mechanical transmission reverse chain on 24R	#50 – 98 links
84393499P	84393499N	Mechanical transmission drive chain on 24R	#50 – 84 links
84393497P	84393497N	Mechanical transmission drive chain on 24R	#50 – 82 links
84395718P	84395718N	Mechanical transmission return chain on 24R	#50 – 154 links
84395719P	84395719N	Row unit transmission chain on 24R	#50 – 70 links
84393493P	84393493N	Crossover drive chain on 24R mechanical drive	#50 – 56 links
84393493P	84393493N	Drive chain on 12R and 16R upper mechanical drive	#50 – 178 links
84393496P	84393496N	Drive chain 12R and 16R upper mechanical drive	#40 – 104 links
352954A1P	—	Row unit with standard linkage	#41 – 144 links
73341696P	—	1250 hydraulic transmission drive before MY 2012	#50 – 49 links
73341697P	—	1250 hydraulic transmission drive before MY 2012	#50 – 56 links

Planter Chains for Early Riser 1255—12-16 Row

STANDARD CHAIN PART NO.	NICKEL CHAIN PART NO.	DESCRIPTION	CHAIN ASSEMBLY (INCLUDES ONE CONNECTOR)
84373804P	—	Row unit meter drive	#41 – 120 links
84387533P	84387533N	Meter system drive crossover chain for 12R and 16R	#40 – 72 links
84387534P	84387534N	Hydraulic seed drive chain on 12R and 16R	#40 – 84 links

Planter Chains for Early Riser 1255—24 Row

STANDARD CHAIN PART NO.	NICKEL CHAIN PART NO.	DESCRIPTION	CHAIN ASSEMBLY (INCLUDES ONE CONNECTOR)
84370996P	84370996N	Hydraulic drive transmission chain on 24R	#50 – 62 links
84373804P	—	Row unit meter drive	#41 – 120 links
84393494P	84393494N	Crossover drive 24R	#40 – 69 links

Planter Chains for Early Riser 1260

STANDARD CHAIN PART NO.	NICKEL CHAIN PART NO.	DESCRIPTION	CHAIN ASSEMBLY (INCLUDES ONE CONNECTOR)
84423899P	84423899N	Soil preparation seed drive chain on center 66'	#40 – 90 links
84423900P	84423900N	Soil preparation seed drive chain on middle 90'	#40 – 124 links
84423901P	84423901N	Outer drive	#40 – 60 links
84525967P	84525967N	Soil preparation seed drive chain 50'	#50 – 86 links
352954A1P	—	Row unit with standard linkage	#41 – 144 links

PRECISION PLANTING®

MAXIMIZE YIELD POTENTIAL WITH CASE IH PREMIER DEALERS AND PRECISION PLANTING

Precision Planting®

Case IH Premier Dealers have been trained on select Precision Planting product families and understand how to support those products to help improve your equipment and stands. They offer and support Precision Planting products that will help maximize your productivity in the field including solutions for mixed fleets that may contain Deere and Kinze planters. Retrofit older planters to improve their performance with Precision Planting products that have staying power for the seasons ahead. Case IH Premier Dealers are your trusted planter experts and the one-stop shop for the needs of your machine and your Precision Planting upgrades.

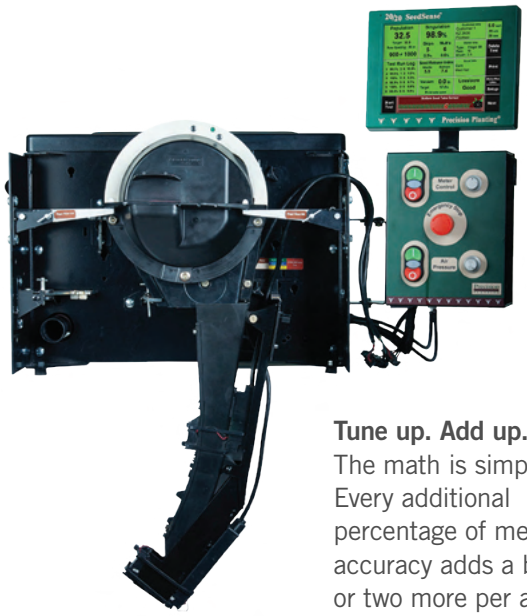
METERMAX ULTRA TEST STANDS

ALL MAKES

Calibration Simplified

While they should run at 98% or better, many meters only deliver 92%–97% accuracy. That's why every meter should be calibrated every year. Drawing on the unmatched precision of 20/20 SeedSense®, MeterMax® Ultra calibrates your meters to your seeds, speed, spacing and population. So take your seeds and meters to your Case IH Premier Dealer, then watch for the added ears, yield and profit. 98%+ accuracy: a seemingly small difference over typical meters, but with a big impact on yield. Case IH Premier Dealers are here to bring your accuracy to where it should be, offering a variety of testing applications, including:

- Population
- Test run log
- Vacuum
- Singulation
- Seed information
- Seed release index
- Loss/acre



Tune up. Add up. The math is simple. Every additional percentage of meter accuracy adds a bushel or two more per acre.

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20|20® DISPLAY (GEN 3) ALL MAKES

High Definition Agronomic Technology

High definition data enables high impact decisions. The new 20|20® monitor provides the most advanced agronomic picture you've ever seen. Optimize planting, harvest, and application decisions with a smart, intuitive interface that visualizes performance and field conditions in real time; seed by seed, plant by plant, drop by drop. Customize display configurations, add sensors, and discover things about your field you may have never known.

The 20|20 powers the most agronomically advanced systems on the market that control population, down force, liquid, multi-hybrid planting and higher speed planting, all while sensing the furrow. The 20|20 does all this and more to provide you the accurate data to make critical decisions and optimize every pass through the field.

- View the most important metrics in real-time
- Control population, down force, liquid, multi-hybrid planting, and more
- Customize to monitor and control based on your individual needs

Your Data, Customized

Take control of your operation by understanding what's happening during every pass through the field. Instantly manage the data you collect, and choose from a limitless number of customizable views. Put metrics, maps and relevant data on a single display.

See the Difference

All of these metrics can be made available on the 20|20.

METRIC	DESCRIPTION
Furrow Moisture*	Water weight a seed will gain in three days
Furrow Temperature*	Real time temperature of the soil in the furrow
Uniform Furrow*	Variation in the furrow - light, cloddiness, moisture changes
Clean Furrow*	Absence of crop residue
Organic Matter*	Estimated soil organic matter
Ground Contact	Row unit planting/seeding at the depth it is set
Margin	Excess weight on gauge wheels
Ride Quality	Smoothness of row unit
Singulation	Amount of properly singulated seeds
Liquid Rate	Rate of liquid applied
Yield	Spatially accurate crop yield
Applied Down Force	Force applied to the row unit

** Available on planters equipped with SmartFirmer*

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Higher Accuracy and Higher Yield

95% singulation results sound good until you've seen 99%. You can do better with vSet and get proven results that picket fence your field. Get superior singulation that will send you back to the barn with a smile.

vSet releases seeds down the center of the tube which is critical to optimum spacing. And vSet makes sure no two seeds of any kind can occupy the same hole. One seed locks in and one seed drops. Every time. It handles any seed size or shape without finicky tweaks to vacuum, disk or singulator settings.

Just pour in the seed and go. Then get ready for your best possible yield.

- The best singulation available
- Outstanding reliability
- Easy to maintain and use

vSET SELECT

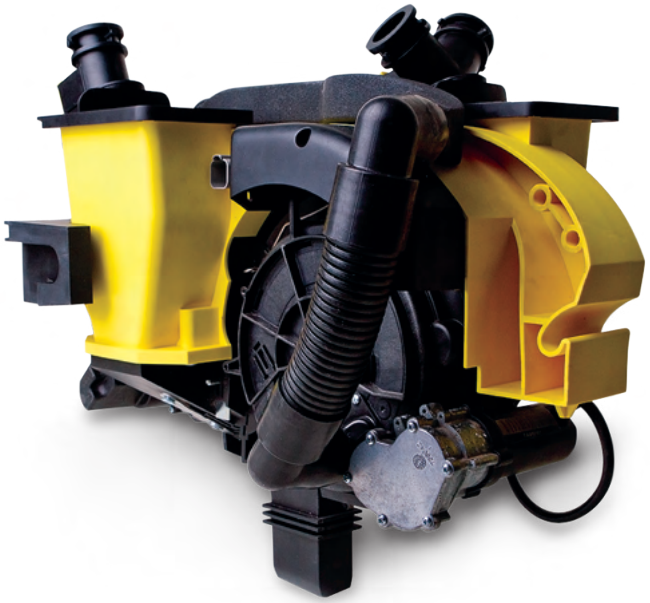
ALL MAKES

Multi-Hybrid is Here

You aim to maximize yield by planting the hybrid that will do the best, on average, across the whole field. But yield environments often change in the same field, calling for different hybrids in different areas. You've had to make compromises, but not anymore.

With vSet Select you can plant two hybrids in the same row, switching back and forth as environments change, to plant the hybrid that will produce the most in each environment. That maximizes yield.

- Uses standard dual bulk seed tanks
- The best meter technology
- Row by row control, instant hybrid switching



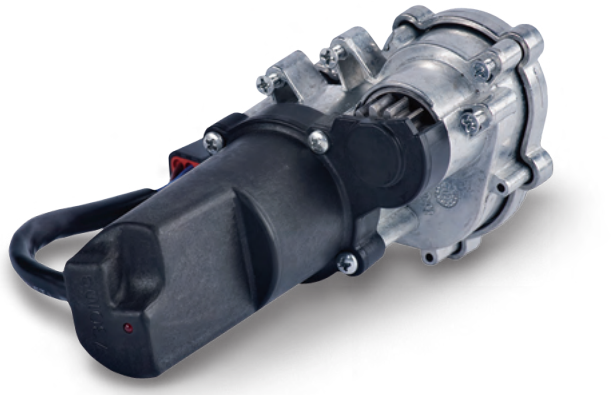
vDRIVE

ALL MAKES

Control and Accuracy

vDrive is a custom planter on each row that ensures your population is right on target. Whatever you need and ask of that row happens. Period. Season one, you have the capabilities to do your best planting, plus a meter and drive setup that has staying power for the seasons ahead.

- Independantly manage male and female rows in seed production applications
- Independent rows
- Prescription accuracy
- Built for speed
- Manage curves



Remove Headaches

Mechanical drive systems have a lot of moving parts and require maintenance and costly upkeep. vDrive is self-contained and virtually maintenance free. Ensure your planting success with a stable setup you can count on season after season.

vSet Unleashed

vSet meters are an engineering marvel. Combine them with vDrive and get amazingly precise population control through curves and ground speed changes. vDrive works with all variable-rate prescriptions – even highly granular ones.

vDrive Insecticide – Powered by vDrive Electric Motor

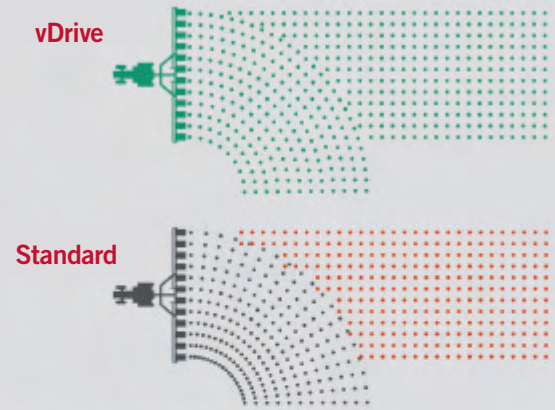
Chain-free insecticide: complete the chainless planter

Normal insecticide meters are chain driven and accurate at a single speed. In the past, if you wanted to use an electric drive for your seed meter and apply granular insecticide, you would have had to leave the chains. Not anymore.

vDrive Insecticide is the electric motor-driven insecticide meter that provides accurate delivery across your entire speed range. Row by row control for your insecticide delivery is now within reach.

vDrive Electric Motor

Provides accurate delivery across entire speed range.



Population control, even around curves

5.9% of the average farmer's field is double planted. vDrive takes the place of both a drive system and clutch. It plants the population you set, and no more. With these motors, you can control each row of your existing planter individually: precisely executing variable-rate prescriptions, planting correct populations around curves, and utilizing automatic row-by-row shut-off on point rows, avoiding double plant.

vApplyHD®

ALL MAKES

Flow Measurement and Control On-Row

vApplyHD is the industry first, on-row liquid control product which incorporates flow measurement and control into a single device. Its row-by-row features include turn compensation, swath, automatic flow balancing, and variable rate prescription execution. The module is easy to install, simple to use, and designed with industry leading flexibility. The vApplyHD module is used, without modification, from the lowest pop-up rates on the planter to the highest sidedress rates, across the full range of speeds.

- Easy to install and simple to use
- Improves application distribution
- Reduced hardware complexity

Apply Precisely on Every Row

A Precision Planting customer from Wilmington, Ohio was planting and applying starter at a flat rate across a field with a significant variation in elevations and soil types. He decided to convert to vSet® Select and vApplyHD to better utilize his seed and starter in order to optimize his yield. Comparing two years of yield data which had very similar weather, he was able to show a 16 bu/a increase by varying starter applied on the planter along with hybrid and population, meanwhile reducing his total amount of starter by 30%.

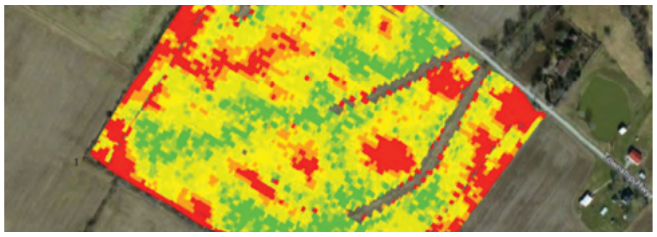
Specifications

Compatibility

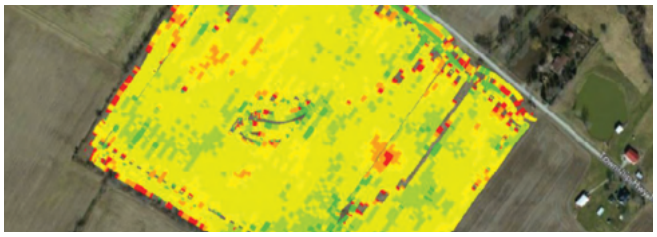
- SRM systems
- Side-Dress applicator
- Up to (2) vApplyHD modules per row and/or (2) FlowSense™ modules
- Section control vApplyHD (needs FlowSense on all rows)
- Not compatible with suspension fertilizers
- vApplyHD Module Compatible pump types controlled by: (electrical, hydraulic, ground drive)
  - Diaphragm
  - Piston
  - Centrifugal
  - Electrical
- vApplyHD is not compatible with Squeeze Pump

Flow ranges

- Max sealing pressure 100 PSI
- .05-3.0 GPM (approx 3 GPA to 60 GPA assuming 30" rows)
- Eliminate needs for orifices
- High resolution data mapping



2012 yield map 162 bu/a field planted with flat rate seed and flat rate pop-up



2016 yield map 178 bu/a field planted with variable rate seed and variable rate pop-up

Plumbing requirements

- 80 mesh strainer between tank and vApplyHD modules
- Manual pressure relief valve
- System accumulator
- Pump outlet pressure sensor

DELTAFORCE

ALL MAKES

Down and Lift Control

Two directions of control plus a simple user interface for down force like no one else — DeltaForce replaces the springs or air bags on your planter with hydraulic cylinders. It automatically increases or reduces weight with military precision, on each row individually. So when one row encounters conditions different than another (wheel tracks, old road beds, clay knobs, headlands, etc.), each will adjust independently.

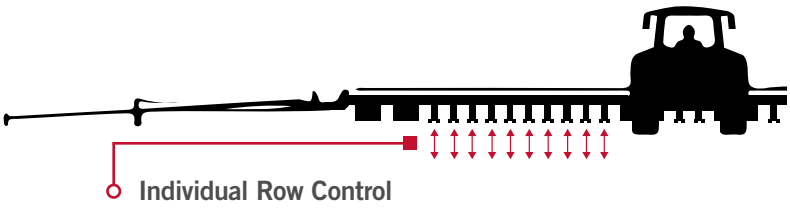
Row by row, foot by foot, even seed by seed, you produce an environment that fosters uniform germination, optimum growth and maximum yield. You can put DeltaForce on most Case IH, Deere, and Kinze planter models.

- Independent row response
- Hydraulic controlled down and lift
- Sub-second response to changing conditions

DeltaForce row unit down pressure control

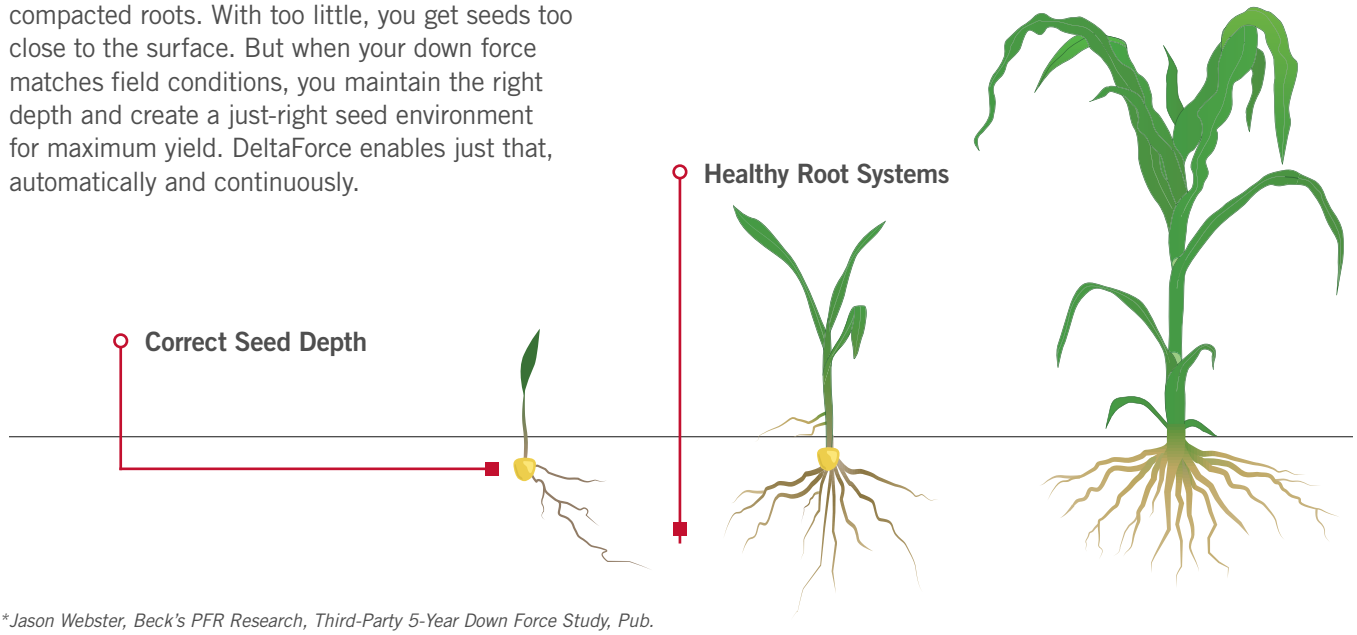
Why focus on down force control?*

Get an average 11+ bushel per acre advantage with DeltaForce. Each row has unique depth control, from flat fields to varied terrain, and across soil types.



Bad root structure is a hidden loss

With too much weight on your row units, you get compacted roots. With too little, you get seeds too close to the surface. But when your down force matches field conditions, you maintain the right depth and create a just-right seed environment for maximum yield. DeltaForce enables just that, automatically and continuously.



*Jason Webster, Beck's PFR Research, Third-Party 5-Year Down Force Study, Pub. 2013. Results showed DeltaForce 4.9 bushels per acre advantage over AirForce (1 year) and AirForce 3.9 bushels per acre advantage over the optimal static setting (5 years).

SMARTFIRMER®

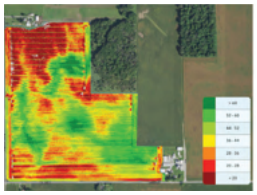
ALL MAKES

The Furrow – The Seed's Lifeline

The furrow holds the key to your crop's potential. However, getting timely information about the condition of the furrow during planting can be difficult at best. SmartFirmer lets you see into every furrow using a seed-firmer sensor that measures organic matter, moisture, residue and temperature and displays the information on the 20|20 display so decisions can be made in the go.

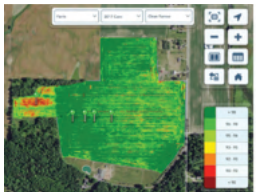
- Row-by-row visibility to soil moisture and temperature in the seed furrow
- Measure organic matter and residue
- Identify irregularities in the furrow
- Optimize hybrid selection, depth, fertility, and row cleaners in real time

Soil Moisture Sensing



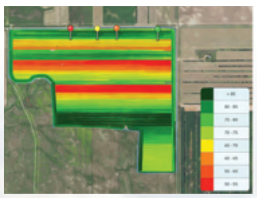
Soil moisture is critical for seed germination and uniform plant emergence, and ultimately crop yield. SmartFirmer gives you row-by-row visibility to soil moisture in the seed furrow, allowing you to choose the right planting depth as soil conditions change.

Residue Sensing



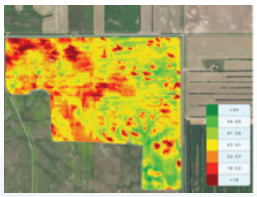
In-furrow crop residue has well-known negative impacts on seed germination and growth. SmartFirmer allows you to measure the quantity of in-furrow residue and adjust row cleaners accordingly, thus ensuring residue won't limit seed moisture uptake or transmit disease.

Soil Temperature Sensing



Sufficient soil temperature is imperative for rapid seed germination. The time for a corn seed to germinate will dramatically increase as temperatures drop below 50 degrees Fahrenheit. SmartFirmer gives you row-by-row visibility of soil temperature in the seed furrow, ensuring that you are planting in favorable conditions.

Organic Matter Sensing



Soil type, organic matter, topography, drainage and many other attributes contribute to differences in yield potential within the same field. Using a high definition organic matter map, SmartFirmer allows you to develop precision prescriptions for planting population, seed hybrid, and fertility applications to manage these variations.

What if you could make automatic adjustments based on this information? You can. SmartFirmer provides automatic, on-the-go control of planting populations or hybrids based on organic matter measurements.

CLEANSWEEP

ALL MAKES

Create the Perfect Seedbed Without Getting Out of Your Cab

Uniform germination and higher plant counts depend on clean rows. Clean rows are the work of row cleaners. But, until now, row cleaners have been hard work themselves, because they need to be set precisely and changed frequently.

But now, CleanSweep does all that hard work for you. It puts row cleaners right where they need to be – where they move the residue but not the soil – and continuously adjusts them as field conditions change. All you need to do is move the cab-mounted controller. You can even raise the row cleaners up and out of the way when you're not using them.

- Continuously adjust to changing field conditions
- Prevent residue from being hair pinned in the seed trench
- Move residue – not soil

KEETON

ALL MAKES

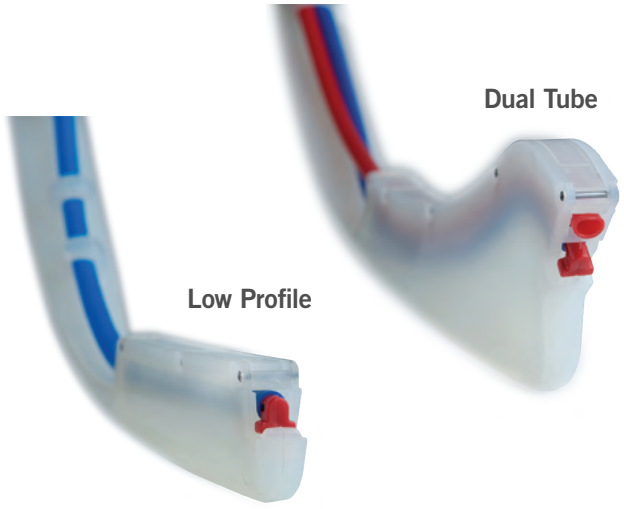
Firmer is Better

Case IH Early Riser planters do not need a seed firmer to acheive accurate seed placement thanks to our furrow forming point on the row unit; the Keeton Seed Firmers are an effective solution on competitive planters.

Seeds don't always land right in the bottom of the trench where they belong. But, with its unique, in-the-trench design, the Keeton Seed Firmer is designed to exert a light amount of pressure to gently firm the seed into the bottom of the trench, resulting in even depth, correct seed-to-soil contact, uniform germination, and optimum yield.

By achieving a more accurate depth and even emergence, Keeton Seed Firmers can increase your plant and ear counts by 1,500 to 2,000 per acre. When seeds start out at the same depth, they are more likely to emerge at the same time. Tests show that uniform emergence can boost yield by 5%.

Keeton Seed Firmers are available for virtually every planter or drill, with single or dual applicator tubes. Put one on each of your row units and watch your seeds do their very best.



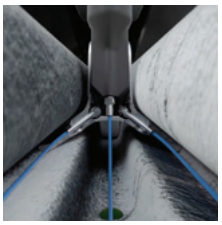
FURROWJET®

ALL MAKES

The Optimum Starter Placement

FurrowJet is a planter fertilizer attachment which enables you to place not only an in-furrow starter fertilizer, but also a dual-band of fertilizer 3/4" on each side of the seed. FurrowJet rides in the furrow just above the seed, firming while placing starter. Wings on FurrowJet angle downward to cut into the sidewall and place fertilizer alongside the seed in a dual-band. By being near-furrow, this placement gives the seedling and crown roots immediate and continuous access to the nutrients. Combined with accurate placement, FurrowJet is flexible, allowing increased rates and common starters to be applied safely, avoiding seed burn risk.

- Provides immediate and continuous access to nutrients for the seedling and crown roots
- Easy mounting to quick-attach firmer bracket
- Flexible allowing starter placement in 3 locations with a single device



1 Device. 3 Locations.

COMPATIBILITY

Compatible Row Units:

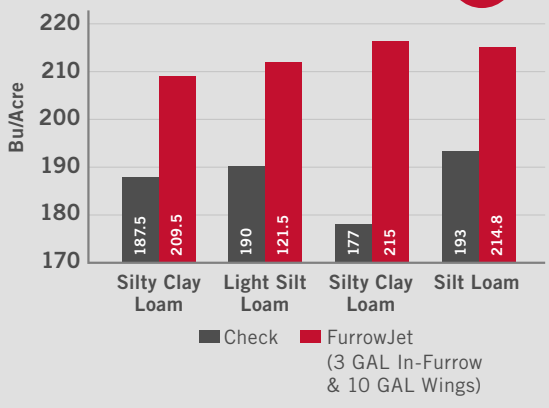
- Case IH 2000 Series Row Units
- John Deere MaxEmerge
- MaxEmerge 5
- Kinze 2000 - 4000
- White 9000
- Harvest International Laser Pro

Yield Response You Can See

Farm Journal starter test plots were planted May 6 and 7 in 2016. Within 24 hours of planting, this field received excessive rainfall in a short amount of time, which played a role in the results. “The large yield responses show the effect of starter fertilizer placement and the horsepower it provides to mitigate early season stress,” Ken Ferrie said. “The fact we were able to weatherproof this plot by replicating it across the field makes the large yield increases more believable.” The first study was a comparison of the check to FurrowJet applying three gallon in-furrow and ten gallon through the wings. The second study compared the check to in-furrow only, FurrowJet (tri-band) and a 2 × 2 with a Keeton seed firmer together. FurrowJet saw a 26 bu/a average advantage over check on plot A and a 28 bu/a average advantage over check on plot B.

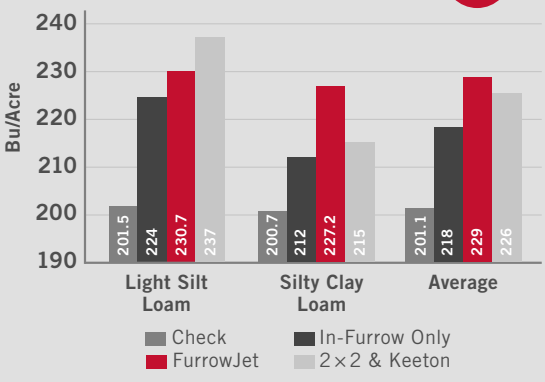
A: Yield Response to Placements

+26 bu/a



B: Yield Response to Placements

+28 bu/a



SPEEDTUBE

ALL MAKES

Plant 2× Faster*

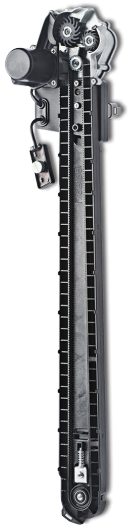
Focused on the perfect plant and seed

SpeedTube has broken seed tube convention. Planting with SpeedTube enables accurate seed spacing at any speed – regular seed tubes just can't handle going faster. Take control of your best planting window at double your speed.

The secret is in the flighted belt that takes gravity out of the equation. There's no opportunity for seeds to ricochet into the trench. Even at twice the speed you normally plant, every seed arrives safely at the bottom of the trench, spaced evenly, every time. So the perfect plant spacing is attainable, while maximizing that perfect planting window.

- More acres planted with less iron
- Industry-leading vDrive inside for sub-second execution
- Flighted belt gets seed from meter to furrow with no ricochet

Improve Your Planter Performance While Making Your Planter Simpler



Grab that seed

Feeder wheels grab the seed off the disc and place it onto the belt for delivery to the trench while maintaining superior singulation and spacing.

Control its descent

The belt matches the speed of the planter and carries the seed all the way to the bottom of the trench.

Release without roll

The seed drops exactly where it needs to be as SpeedTube eliminates seed roll and bounce.

** SpeedTube for Case IH 1200 series planter recommended for accuracy improvement only.*

WAVEVISION

ALL MAKES

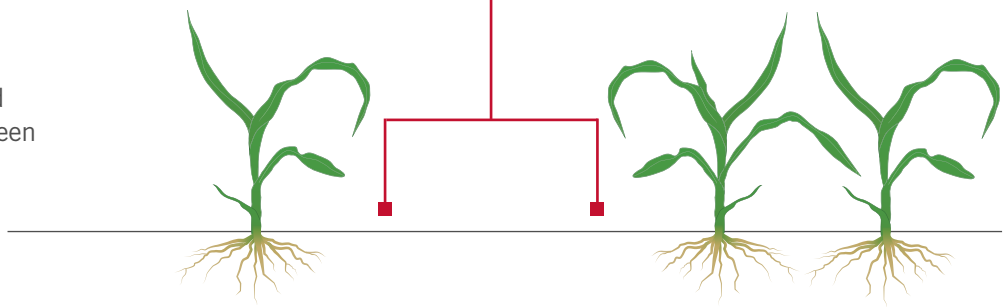
Discriminate Against Dust

To get accurate counts of the seeds you're planting, you rely on your seed tube sensors. Optical sensors aren't always reliable in dusty conditions or near tires where debris can be kicked up. They can report dust and debris as seeds. Then you get bad counts. Then your yield suffers because you're not making needed adjustments as you plant.

WaveVision sensors and seed tubes don't depend on optics. They don't see seeds, they detect mass, using high-frequency sensors. They can tell the difference between seeds and dust or debris, and count only the seeds. You get accurate counts, so you can plant what you plan. Your yield improves.

A high-frequency sensor
It counts only the seeds and can tell the difference between seeds, dust, or debris.

Avoid gaps and doubles
Stop this costly problem by eliminating sensor interference.



mSET®

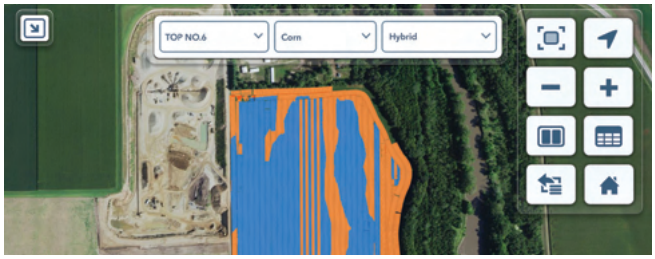
ALL MAKES

Field Variability

Different hybrids are often used in different fields to account for the variability between fields. But what about the variability that exists within a single field, or even a single pass? Changing hybrids within the field and within a pass can maximize profit potential.

Different Genetics Provide Different Results

In this field, there are timber soils along the tree-line, as well as some gravel veins that run through the middle of the field. For years this field has seen reduced profit potential from being planted to a single hybrid.



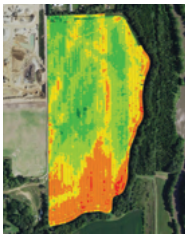
See how mSet was utilized to plant the best hybrid for these different areas of the field.

Multi-Hybrid Planting

mSet® allows you to change between two hybrids within a single field and even within a single pass. It is built on the unparalleled accuracy of vSet and vDrive which provide impeccable seed placement and simplicity of drive system. A seed selector is added to the hopper to switch hybrids, along with a seed pool level sensor in the meter. At hybrid change, the level sensor will let the seed pool run low, then call for a dose of the other hybrid to enter the meter just in time for the change, leading to a short transition between hybrids. The seed pool is being controlled by the mSet selector so there is always a small amount of the correct hybrid in the meter, allowing the vSet meter to accurately singulate those seeds. The result is the hybrid you select, in the area of the field you select, planted with the highest accuracy.

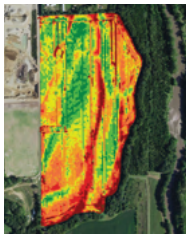
- Reduce seed cost in areas with less potential while increasing yields in areas with more potential
- Compatible with either seed tubes or SpeedTube
- Can be added to an existing vSet meter system

Look at the variability in organic matter in this field. Averaging the field by planting a single hybrid is leading to yield loss in the best areas, and overspending on seed in the areas that are not capable of producing as much.



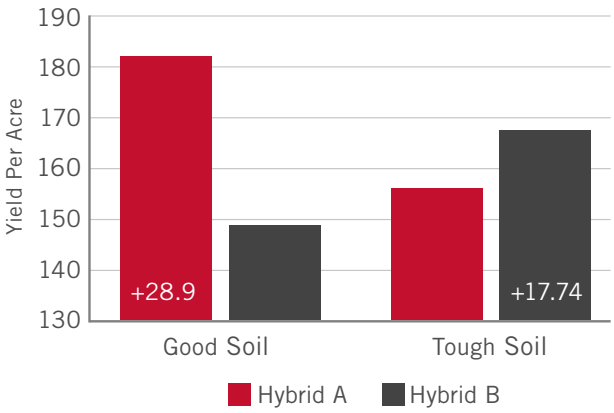
Organic

Hybrid



Yield

Multi- Genetic 2016 Study



YIELDSENSE

ALL MAKES

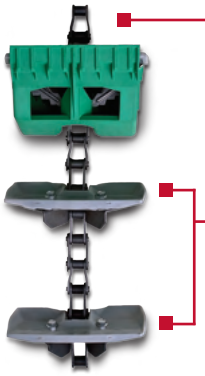
Simple Harvest Data

YieldSense drives better decisions with data you can trust. Other yield monitors fall short. When speed changes, so does the mass of grain passing the flow sensor, and you get varying results. YieldSense changes the way grain flow is measured. Our patented flow sensor is installed in the correct location, so accurate yield is measured across all mass rates.

With real time yield by hybrid reports, wireless data sharing between combines, and a Grain Property Kit to keep the system accurate, YieldSense gives you the tools you need for better decisions at harvest and beyond.

Make sense of your yield data and make better decisions for your operation:

- Instead of time consuming re-calibrations, get simple, reliable results
- Instead of isolated information, get instant connectivity and sharing
- Instead of complicated desktop software, get yield-by-hybrid reports instantly from the cab
- Instead of only whole-field results, get zone-by-zone yield data unlike any other yield monitor

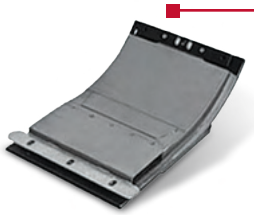


Forget recalibrating

As field conditions change, the grain property kit adjusts YieldSense on the fly.

Consistent paddle shape

Unique paddle shape directs grain flow consistently across the flow sensor.



Measure flow in the right place

Our flow sensor is in the correct location to measure accurate mass flow rates.

Planning

Data that requires complicated desktop software doesn't allow you to make real time decisions from the combine. YieldSense does. It can show you side-by-side maps – yield and as-planted – as you move across the field. You can make meaningful comparisons across yield zones, hybrids, fertilizer levels and more. That allows you to make better decisions for the future.

- Ultimate Accuracy
- Real-Time Yield by Hybrid Reports
- Wireless Data Sharing Between Combines
- Define Management Zones
- Enhanced with Climate Fieldview™ Plus

Detail and Summary

You can get average bushels per acre for the whole field from just about any yield monitor. But only YieldSense will give you yield by hybrid reports from the cab. So you can confidently plan changes for next year real time.

CONCEAL

ALL MAKES

Where The Plant Needs It

Nitrogen is the nutrient needed by a corn crop in the largest quantity and cost. You know that it has to be managed well to get the best yield possible from the fewest fertilizer dollars. A traditional broadcast method leaves the fertilizer prone to volatilization and loss, and also places the fertilizer evenly across the field, not right where the plant needs it. A better way is a band of nitrogen placed under the surface of the soil, which protects the nitrogen from volatilization, and puts the fertilizer right where the plant needs it, not where a plant is not growing.

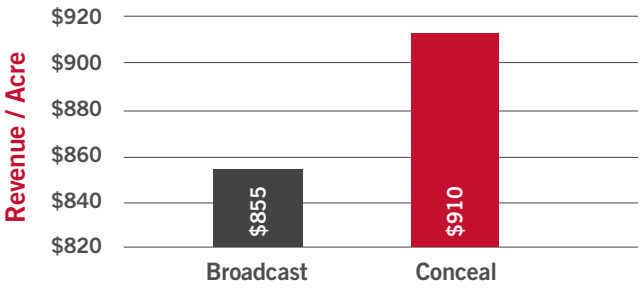
When The Plant Needs It

From the time a plant emerges through the V8 growth stage, it is determining the maximum size of the ear it will produce. In this timeframe, yield is lost if the plant is nutrient deficient. Applying fertility with the planter a few inches away from the seed allows moisture to move the nitrogen into the soil profile so that the plant's crown roots will intercept the banded nitrogen right when the plant needs nitrogen; while it is determining its maximum ear size. Making sure that the plant has the fertilizer it needs at this point will help you maximize the return on each dollar spent on fertility.

Simple Device For Optimum Fertilizer Placement

In order to accomplish the ideal placement of nitrogen, the attachment must do three things.

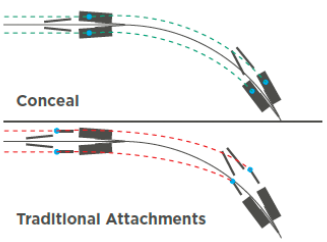
1. Always place the fertilizer below the soil surface, even over uneven terrain
2. Always maintain consistent placement of fertilizer relative to the seed, even around curves.
3. Never interfere with other aspects of row unit performance such as closing performance or depth control. Conceal accomplishes all three of these things with a knife that is tucked in a grooved gauge wheel, barely even noticeable on the row unit, yet doing the most consistent job of nitrogen placement on the market.



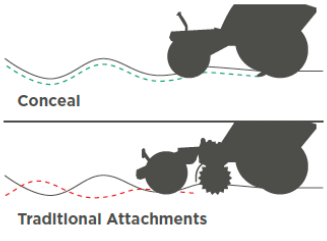
In this 2017 study, applying banded nitrogen with Conceal provided an additional $55 per acre of revenue vs a pre-plant broadcast application of the same rate of 28% nitrogen. Conceal Program - 50% of nitrogen was applied in a band with Conceal during the planter pass. The other 50% of nitrogen was sidedressed at V3 with a coulter toolbar. Broadcast Program - 50% of nitrogen was broadcast on surface with sprayer pre-plant and incorporated. The other 50% of nitrogen was sidedressed at V3 with a coulter toolbar.

See The Difference

Whether you choose a single or dual band, the Conceal knife will maintain ideal placement because it is placing fertilizer right beside the seed, so curves or changes in the surface of the soil do not cause placement variation. Conceal uses the gauge wheel to power the knife through any rocks or residue that it encounters, and while the knife uses the gauge wheel as a guide, it is mounted separate from the gauge wheel and wont impact seeding depth because it is traveling independent of the gauge wheel. Conceal won't get fertilizer all over your planter, because it is, well, Concealed. Fertilizer placed in the soil, consistent with the seed, and it doesn't interfere with other portions of the row unit. Add Conceal today and get the perfect placement you want, and avoid the row unit and fertility placement issues that you don't want to be stuck with.



Conceal placement vs. Closing wheel or frame mounted placement around a curve.



Conceal placement over uneven terrain vs closing wheel or frame mounted placement over uneven terrain.

SPECIFICATIONS

Row Unit

- Harvest International® LaserPro
- John Deere® 7200/7300/17XX/DB/17X5
- Kinze® 3000
- Precision Planting® Ready Row Unit
- White® 9000

Compatible Gauge Wheels

A special gauge wheel from Precision Planting is part of the Conceal system.

Fertilizer Usage Guidelines

Growers are advised to refer to their fertilizer consultants in determining maximum safe rates for their fertilizer product applied and soil type.

FURROWFORCE™

The Goal Of A Closing System

The closing system is a critical aspect of the planter that leaves the operator questioning if it is set right or even if it is the right system for the field conditions. What spring pressure should it be set to? Which of the dozens of wheel types do I use? Do I need to change settings during the season, throughout a single day, or even throughout a field? Current closing systems are attempting to address one aspect of closing but struggle to provide what is necessary for optimal emergence:

1. No Slotting or Air Pockets
2. Mellow Path to the Surface
3. Moisture Retention in Loose Soil

Correct closing means management of soil density to drive uniform seedbed moisture and temperature, minimizing delayed germination, inconsistent emergence, and lost yield. And you may not even be aware of these issues in your fields.

Too much air in the soil after closing is your enemy, as either hidden air pockets in hard to close environments or loose soil that dries out quickly in easy to close environments.

Confidence That Your System Is Set Correctly

FurrowForce changes closing entirely, addressing all aspects of managing soil density through its unique design as an automated two stage closing system with integrating sensing.

The first stage closes the trench from the bottom up to eliminate air pockets and the second stage stitch wheels firm the soil for moisture retention, fully managing the seedbed environment for consistent germination.

FurrowForce eliminates the guesswork of what notch to set your closing system to. The first and second stage are linked together with the remaining stitch wheel weight being measured by a load cell on each row and displayed in the cab on the 20|20 monitor.

Using the load cell, a control module on each row automatically increases or decreases the force applied to the closing wheels, to ensure that the first stage wheels are successfully closing the trench and the second stage applying just the right weight for optimal seedbed moisture and soil density management.

Across every acre, with FurrowForce, you can now be confident in your planter's ability to manage furrow closure for optimal germination and emergence.

See The Difference

FurrowForce is an automated system, meaning that the operator in the cab sets a desired closing margin, or the amount of weight carried on the stitch wheels. As variation is encountered in the soil, as you change speeds, or as row unit downforce changes, the change in weight on the stitch wheels is sensed by the load cell and the control module changes the force applied to the entire system, keeping the first stage wheels at just the right pressure while maintaining ideal closing margin on the second stitch wheels to optimally firming the soil to manage soil density and moisture. It's a smart system that eliminates guesswork.

Get the confidence you deserve with FurrowForce, the automated two stage closing system with integrated sensing.

In 2019, various closing systems were studied at the Precision Planting Precision Technology Institute in Pontiac, IL. See the study results below, where sensing and control improved yield over traditional systems, in a continuous corn program.

SPECIFICATIONS

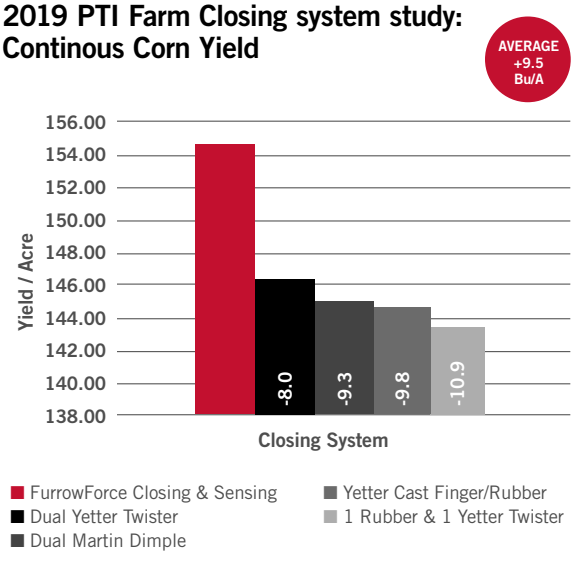
Row Unit

- Case IH 1200 & 2000 Series
- JOHN DEERE® 7200/7300/17XX/ DB/17x5/ExactEmerge
- KINZE® 3000
- PRECISION PLANTING® Ready Row Unit
- WHITE® 9000
- HARVEST INTERNATIONAL® LaserPro

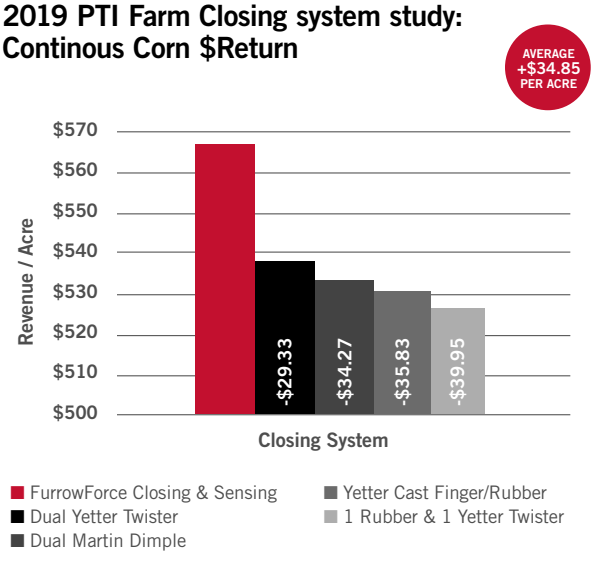
Other Requirements

- 20|20 (Gen 3) is required for sensing and control.
- **Air Supply –** Precision Planting has options for compressors that are matched to your planter as part of the FurrowForce system.
- **Wheels –** FurrowForce uses specific wheels from Precision Planting for the first and second stage.
- **Rocky Conditions –** A rock guard from Precision Planting is required for FurrowForce when planting in fields with rocks.

2019 PTI Farm Closing system study: Continous Corn Yield



2019 PTI Farm Closing system study: Continous Corn $Return



AIR HOE DRILLS

Furrow Opener Points

Part No. 818085C2 (3" shovel)

Part No. 818083C2 (5" shovel)

Application: 7100, 7200, 8500 drills

Part No. 818085C2

Part No. 818083C2

Eagle Beak Point in Bulk

Part No. 1279757C1B

Application: 7100, 7200, 8500 drills

Anderson Opener Assemblies

PART NO.	DESCRIPTION
312945A1	Anderson opener AE-12 day (12" drill edge-on – dry fertilizer)
1033282	Chrome weld-on replacement point for Anderson openers

Part No. 1033282

CHOOSE YOUR SHANK STYLES AND TRIPS

The rugged C-shank and trip design allow for use with a wide range of opener styles. Choose 350-lb. trips for most soil types, or 550-lb. trips for rugged conditions and double-shoot applications. Mount an optional one-bar 1/2" tine harrow behind the rear shanks for added leveling and row closing.

Shanks

PART NO.	DESCRIPTION
87506241	50°, no offset
87506243	50°, 2-1/4" left offset
87506242	50°, 2-1/4" right offset
87500716	50°, 3-1/8" left offset
87500715	50°, 3-1/8" right offset
87506280	47°, no offset
87506281	47°, 2-1/4" left offset
87506282	47°, 2-1/4" left offset

Trips

PART NO.	DESCRIPTION
TP-351A	350-lb. trip
87686090	550-lb. trip

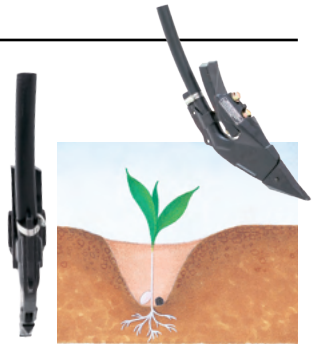
STEALTH OPENERS

The Stealth opener is a modular system that adds versatility to your row seeding. A choice of tips or attachments mount to the main body, and replaceable tips promote long life and customization.

- **Single-Shoot:** Stealth openers use replaceable tips that work for both narrow-row and spread-row seeding styles.
- **Double-Shoot:** Stealth double-shoot attachments allow one-pass placement of seed and fertilizer. Seed/fertilizer separation prevents seedling damage.

Knife Tips

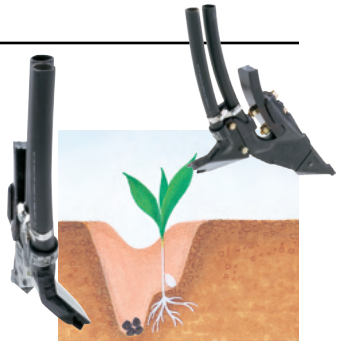
- Low soil disturbance
- Very narrow spread of 7/8" to 1"
- For use with any press wheel
- Heavy-duty, gumbo or carbide tips match soil condition



PART NO.		DESCRIPTION
STANDARD	CARBIDE	
87506287	87505195	Gumbo
87506283	87506293	Standard

Spread Tips

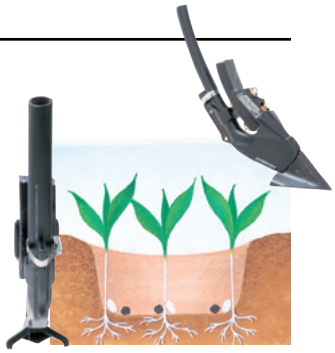
- Places seed 1" above and 1" beside the fertilizer
- Wing forces soil into the fertilizer trench to provide separation from seed
- Can be used with all press wheels
- Available in standard or long-life carbide



PART NO.		DESCRIPTION
STANDARD	CARBIDE	
84193957	84193966	3" spread
84193961	84193981	4" spread
87506290	87563695	5" spread

Side Band

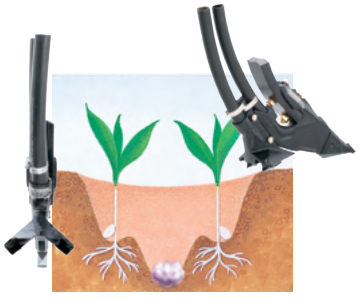
- Designed for low-disturbance seeding
- Wider product spread allows more fertilizer to be placed with the seed
- Spread tips are available in 3", 4" or 5" sizes
- For use with press wheels that match row widths



PART NO.		DESCRIPTION
STANDARD	CARBIDE	
87506407	22846	LH side band
87506409	22847	RH side band

Paired Row

- Seed is placed 1" above and 1" to 2-1/2" on both sides of the fertilizer
- 3" size available in HS format for heavy soils and gumbo, and in LS format for light soils and sandy loam
- 3", 4" and 5" sizes available in carbide for extended wear that helps to maintain integrity of seedbed over the full life of the opener; designed to force soil into the fertilizer trench, providing separation from the seed
- For use with press wheels that match row widths



PART NO.		DESCRIPTION
STANDARD	CARBIDE	
87506291	87506295	3" paired row
87506292	N/A	3" paired row light soil
87506261	22848	4" paired row
87506294	22626\C	5" paired row

Adapter Bodies

PART NO.	DESCRIPTION
GD-847V3	Standard cast body
87418698	Edge-on shank body
BG-103V2	Quick-change knock-on body*

**Requires 9921 wedge*

Part No. GD-847V3

Seed Boots

PART NO.	DESCRIPTION	APPLICATION
1023510	Seed boot	Field cultivators
87506257	Cast seed boot	Field cultivators
87506234	Cast seed boot	Chisel plows
AS-858	Wide banding boot	Chisel plows and field cultivators
AS-859	Narrow banding boot	Chisel plows and field cultivators

Part No. 1023510

Part No. 87506257

Precision Knife Openers

Part No. 47433844 (L.H.)

Part No. 47433845 (R.H.)

Application: Flex Hoe 900 and 800

- Ultra-low-disturbance knife openers with carbide tip and hard-surfacing for placement of seed and dry or liquid fertilizer
- Provides 1-7/8" lateral separation and 7/8" vertical

L.D. Sweeps

PART NO.	ECONOMICAL IMPORT OPTION PART NO.	DESCRIPTION
1032199	1032199N	6" sweep
87298811	N/A	6" hard-faced sweep
350232A1	N/A	6" sweep with chrome edge
1027915	1027915N	11" sweep
87298812	N/A	11" hard-faced sweep
350233A1	N/A	11" sweep with chrome edge
1033379	1033379N	13" sweep
87298813	N/A	13" hard-faced sweep

Part No. 1027915

L.D. Seed Boot Deflector Kit

Part No. B94635

Application: L.D. seed boot assembly

- Components to replace deflectors

PACKER AND LEVELING KITS

Axle Pivot Pin Kit

Part No. B94350A

Application: Concord drills

- Package includes all original equipment components
- Save time and money by having all components and hardware included in one package
- Use kit for pre-season maintenance to promote uptime during the seeding season

Bearing Kit – Disk Leveler

Part No. B94619 (with bolts)

Application: Disk levelers – disk assembly 1030418

- Components necessary to replace bearing in disk assembly 1030418

Bearing Kit

Part No. B94348A

Application: Concord drills using hub 351044A1

- Maintenance kit for Concord packer wheels
- Save time and money by having all components and hardware in one package

PACKER AND LEVELING KITS

Rub Pad Kits

Part No. B94689

Application: Concord air till drills walk beam assembly

- Nylatron for longer service life
- Recommended for abrasive soil conditions
- Kit includes two pads, Part No. 1026499

Part No. B94690

Application: Concord air drills (outer model drill)

- Kit includes four pads, Part No. 1023363

Part No. B94688

Application: Concord air till drills (10" and 12" drills) and narrow transport walking beam assembly

- Kit includes two pads, Part No. 1026129

Four-Ply Packer Wheel

Part No. 47357837

Application: 800 precision drills

- 4.8" × 8", smooth wheel

Flat-Faced Packer Tire

Part No. 290719A1
(includes tire only, shown mounted)

- Preferred for its ability to leave the field exceptionally smooth
- 6.5" × 15"
- Pack the entire width of the ribbon or row
- Sustains minimal stubble damage due to the thicker rubber on the flat face and the four-ply side

Packer Wrench

Part No. 87449833

Application: 400 and 700 drills

Pin Guide

Part No. DR-900K

Application: 400 drills

Press Wheel Removal Tool

Part No. DS-200K

Application: 400 and 700 drills

Hitch Side Plate Kit

Part No. 84401952

Application: 700 drills

AIR CARTS

SEED METER – LEGACY PRECISION AIR CARTS

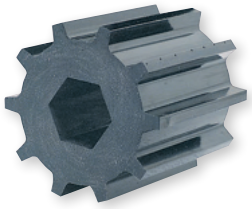
Case IH Air Cart Metering Systems Ensure Accurate Seeding, Every Time.

What crops do you seed now? How will that change next year, or three years from now? Whatever your plan, a range of meter roller designs provide you with accurate metering and efficient operation. Meters accommodate products ranging in size from the smallest forage seed to the largest bean—inoculated, treated or not—plus a wide range of fertilizer applications. The four seed meters below fit legacy carts ADX2180, 2230, 3260, 3360, 3380, 3430, Precision Air Carts 2330, 2280, 3380, 3430, 3580

Select from these roller options:

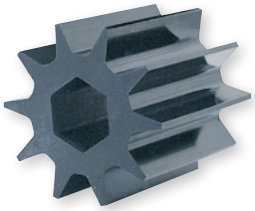
EXTRA FINE: for micronutrients or very small seeds such as alfalfa, grass, canola and grain sorghum, at very low rates

Part No. 9825



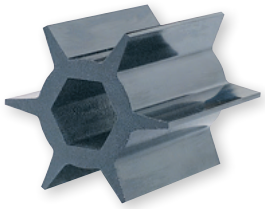
FINE: for wheat, barley, oats, flax, millet and moderate rates of fertilizer

Part No. 7245



COARSE: for solid-seeding, larger crops such as corn and beans at high rates

Part No. 7246



EXTRA COARSE: for very large, fragile seeds such as peas and large beans, and high rates of fertilizer

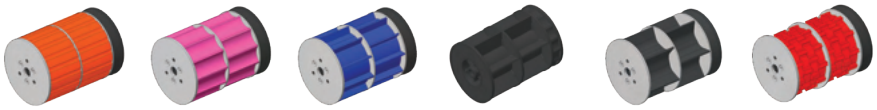
Part No. 51200058

METER ROLLERS

Complete roller assemblies for quick and economical service.

	PART NO.			
NO. OF RUNS	EXTRA FINE	FINE	COARSE	EXTRA COARSE
2	GL-512S.1	GL-522S.1	GL-532S.1	GL-992SV1
3	GL-513S.1	GL-523S.1	GL-533S.1	GL-993SV1
4	GL-514S.1	GL-524S.1	GL-534S.1	GL-994SV1
5	GL-515S.1	GL-525S.1	GL-535S.1	GL-995SV1
6	GL-516S.1	GL-526S.1	GL-536S.1	GL-996SV1
7	GL-563SV1	—	GL-537SV1	GL-997SV1
8	GL-518S.1	GL-528S.1	GL-538S.1	GL-998SV1

SEED METER – 5 SERIES PRECISION AIR CART



		METER ROLLER TYPE	18 FLUTE ORANGE	12 FLUTE PINK	10 FLUTE BLUE	6 FLUTE BLACK	6 FLUTE BLACK EXTENDED WEAR	10 FLUTE RED STAGGERED
			51552525	51552526	51552528	47795910	51552529	90344345
PRODUCT	PART NO.	CARTRIDGE TYPE	RATE RECOMMENDATIONS FOR CARTRIDGE AND ROLLER COMBINATION PRODUCT RATE MEASURED IN KG/HA					
Fertilizer	47795911	Red		16 - 90	38 - 208	68 - 377		
	47795910	Black		33 - 179	76 - 416	137 - 753		
Alfalfa	47795912	White					2.2 - 10.0	
	47795911	Red		9 - 75				
Barley	47795911	Red			23 - 139	42 - 252	42 - 252	
	47795910	Black			46 - 278			
Canaryseed	47795911	Red		23 - 87	52 - 202			
	47795910	Black		45 - 174				
Canola	47795912	White					2.8 - 9.0	
	47795911	Red						
Durum	47795911	Red			67 - 177	121 - 322	121 - 322	
	47795910	Black			134 - 355			
Flax	47795911	Red		22 - 70	52 - 162			
	47795910	Black		45 - 140				
Inoculant	47795912	White						
	47795911	Red	2.2 - 8.6					
Large Beans	47795911	Red				39 - 294	39 - 294	
	47795910	Black				78 - 589	78 - 589	
Lentils	47795911	Red			39 - 174			
	47795910	Black			78 - 348			
Mustard	47795912	White					2.3 - 9.7	
	47795911	Red		9 - 73				
Oats	47795911	Red				34 - 168	34 - 168	
	47795910	Black			37 - 186			
Peas	47795911	Red				84 - 257	84 - 257	
	47795910	Black			93 - 284	168 - 515	168 - 515	
Rice, Hybrid	47795911	Red						17 - 50
	47795910	Black						
Rice, Non-Hybrid	47795911	Red						56 - 123
	47795910	Black						101 - 168
Rye	47795911	Red			57 - 162			
	47795910	Black						
Sorghum (Milo)	47795912	White					1.7 - 9.4	
	47795911	Red						
Soybeans, small to Medium	47795911	Red			34 - 174	61 - 315	61 - 315	
	47795910	Black						
Soybeans, Large	47795911	Red				61 - 315	61 - 315	
	47795910	Black						
Wheat	47795911	Red				61 - 305	61 - 305	
	47795910	Black						

LEGACY AIR CART MAINTENANCE KITS

Lombardini Filter Maintenance Kit

Part No. B94675

Application: Concord air systems

- Kit contains fuel and oil filter

Top Door Gasket Kit

Part No. B94628

Application: 1100, 2000, 2300, 2400, 3000, 3400, 3503 Concord air systems

- Gaskets and glue to repair seal on top door

AIR SEEDER HOSES

Your Case IH dealer offers PVC, low-pressure hose, sold by the foot, in sizes from 1" to 2.5" in diameter for air seeder applications.

PART NO.	ID	LENGTH (FEET)	COLOR	DESCRIPTION
ORIGINAL EQUIPMENT				
23655	7/8	100	White	Poly EVA
87410257	7/8	100	Black	Poly EVA
1032334	1	100	Clear	Clear PVC with white helix
4726	1	100	White	Poly EVA
86993485	1	100	Black	PVC
86992913	1	100	Black	Poly EVA
84340225	1	100	Black	PVC
87446431	1	100	Clear	Clear PVC with white helix
412786A1	1.25	100	Clear	Clear PVC
84346017	1.25	100	Black	PVC
8159	1.25	100	White	Poly EVA
86992262	1.25	100	Black	Poly EVA
1333818CX	1.375	100	Black	PVC
350447A1	1.5	100	Black	PVC
73358256	1.5	50	Clear	Clear PVC with white helix
6401	1.75	100	Clear	PVC
86992281	1.75	100	Black	PVC
86992283	1.75	100	Black	Polyurethane-lined extended wear
84533558	1.75	10	Black	PVC
1018883	2	100	Clear	Clear PVC with white helix
241305A1	2	100	Black	PVC
1032335	2.5	50	Clear	Clear PVC with white helix
1032336	2.5	50	Black	PVC
86993497	2.5	50	Black	Polyurethane-lined extended wear
86993494	2.5	100	Black	Polyurethane-lined extended wear
86992286	2.5	100	Black	PVC
3680	2.5	100	Clear	Clear PVC with white helix
1032275	5	28	Black	PVC
1032276	5	56	Black	PVC
1032338	5	100	Black	PVC
1032277	5	28	Clear	Clear PVC with white helix
VALUE LINE				
73342889	1	100	Black	1" × 100' black PVC
73343092	1	100	Clear	1" × 100' clear white helix
73342890	1.25	100	Black	1-1/4" × 100' black PVC
73342891	2.5	100	Black	2-1/2" × 100' black PVC
73343093	2.5	100	Clear	2-1/2" × 100' clear white helix

AIR CART KITS

Metering Roll Seal Kit

Part No. 1030624E

Application: Concord air systems 1100, 2000, 2300, 2400, 3400, 3503

Seal Kit— Flow Control Plate

Part No. B94618

Application: Concord air systems 1100, 2000, 2300, 2400, 3503

- Kit includes two outer seals and one inner seal

Plate Seal Assembly— Metering Rolls

Part No. 1027945E

Application: Concord air systems 1100, 2000, 2300, 2400, 3400, 3503

Meter Quick Pin Kit

Part No. 51554444

Application: Precision Air 5 Series

Motor Ground Kit

Part No. 51577244

Application: Precision Air 5 Series

Bottom Wiper Kit

Part No. B94615 (product meter)

Application: Concord air systems bottom product meter

- Product meter includes rubber wiper, support and hardware
- Seed meter includes rubber wiper, strip and hardware

Part No. B94615

Bearing Kit

Part No. B94629

Application: Concord air systems

- Cart maintenance kit promotes uptime service during seeding season

Header Stand Elbows

PART NO.	DESCRIPTION
GP-103	Standard elbow
GP-102	High-abrasion elbow

Part No. GP-102

AIR CART KITS

Caster Wheel Bearing Kit

Part No. B94631

Application: All wings and mainframes on drills less than 44'

- All components to replace bearings in caster wheel

Caster Wheel Bearing Kit

Part No. B94632

Application: Heavy-duty mainframes – +44' drills

- All components to replace bearings in caster wheel

Front Caster Bearing Kit

Part No. 6752

Application: Precision and ADX air carts

- Contains bearings, seal, cap, washers and pin for castor pivot

Cart Axle— Bearing Kit

Part No. B94630

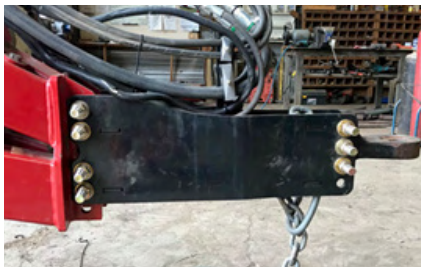
Application: Carts 2000, 2300, 2400, 3400, 3503

- Kit includes bearings, seals, cap and hardware

350 TBT Ext Hitch

Part No. 51646791

Application: 2355 air cart



Calibration Bag

Part No. 47789710

Application: Carts 2355, 3445, 3555, 4465, 4585

Part No. 47792067

Application: Carts 3725, 3915, 3955, 4765

Aux Fill System Update

Part No. 48159457

Application: Carts 4465, 4585, 4765, 4955

- To update a Model year 2018 and older 4465, 4585, 4765, 4955

12 Run Plenum Kit

Part No. 47525122

Application: Carts 3725, 3915, 4765, 4955

Tank Level Indicators

PART NO.	DESCRIPTION	APPLICATION
47808701	2 Tank Level Indicator	2355
47808702	3 Tank Level Indicator	3445, 3555, 3725, 3915
47808703	4 Tank Level Indicator	4465, 4585, 4765, 4955

PRECISON DISK DRILLS

All-Makes Earth Metal® Opener Disks

Part No. 133480A1

PART NO.	DESCRIPTION	APPLICATION	DIAMETER		THICKNESS		BOLT HOLES	BOLT CIRCLE		CENTER HOLE DIA.	
			IN	MM	IN	MM	PART NO.	IN	MM	IN	MM
73343551	Flat coulter with countersunk bolt holes	Bourgault disk drills	20.47	520	0.197	5	4	5	127	3.64	92.5
73343553	Flat coulter		20.47	520	0.177	4.5	4	5	127	3.65	92.9
73343554	Flat coulter		18.38	467	0.177	4.5	4	5	127	3.65	92.9
133480A1	Flat coulter	John Deere 1690, 1850, 1860 and 1890 air seeders	18.1	460	0.197	5	4	4.4	111.5	3.03	77

Earth Metal® Opener Disks

PART NO.	APPLICATION	DESCRIPTION
90398017	PD 500/ 500T /500DS	18" × 5 mm
306001A1	SDX30/40	22.5" × 6.5 mm

Fan Speed Increase Kit

Part No. 47986413

Application: PD 500T

Gauge, Closing and Packer Wheels

PART NO.	SIZE	TYPE	APPLICATION
87693254	4" × 12"	Press wheel	500/500T
21618	4.5" × 16"	Gauge wheel	500/500T
87604747	4.5" × 16"	Gauge wheel	SDX
87695406	1" × 12"	Press wheel	SDX
306145A1	9"	Seed lock	SDX

Seed Meters

PART NO.	DESCRIPTION	CROP TYPE
84389793	Extra-fine roller	Sorghum/milo, canola
84389792	Fine roller	Flax, sorghum/milo
84389771	Coarse roller	Barley, oats, rice, soybeans, wheat

Service Spindle Assemblies

PART NO.	DESCRIPTION	APPLICATION
84327548	Double castor and fixed rear wheel	500/500T/500DS
GD-161A	Single castor	400/700/800/900/ATX400/ATX700
84472211	High-flotation double castor and rear wing	700/800/900/ATX700

Barton Opener Components

PART NO.	DESCRIPTION
87508093	18" Earth Metal® opener disk
21629	12" Coulter
21026	4.5" × 16" gauge wheel assembly
87673673	4" × 14" press wheel assembly

Scraper Kits

Part No. 48188187 (Left Hand Scraper)

Part No. 48188190 (Right Hand Scraper)

Application: PD 500, 500T

Stationary Agitator Kit

Part No. 47967729
(12 ports for 70 bus tanks)

Part No. 47967730
(16 ports for 100 bus tanks)

Application: PD 500T

Disk Opener Bearing and Seal Kit

Part No. B96347

Application: SDX-30 drills

Mechanical Work Switch

Part No. 86987949

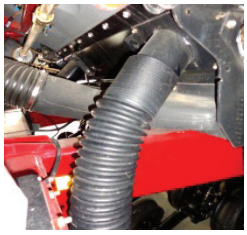
Application: PD 500, 500T, 500DS

Flexible Clean-Out Hose

Part No. 47710042

Application: 500T Disk Drills

- Clean out the bulk seed tank quicker, easier and faster with no mess
- Seed flows to a container located on the ground—reducing seed spillage and saving money
- "One-man" clean-out operation by attaching the tapered fitting end of the flexible hose to the bulk seed tank steel clean-out tube
- One tube for all four clean-out ports on the bottom of the bulk seed tank



All-Makes Bearing Kits

Part No. 87440810

Application: Bourgault Mid Row Banders®

Part No. 419594A1

Application: John Deere 1690, 1850, 1860 and 1890 air seeders

Part No. 87440810

Part No. 419594A1

Depth Gauge Update Kits

Part No. 87627347 (RH)

Part No. 87627348 (LH)

Application: SDX-30 drills

Part No. 87673693

Gauge Wheel Assemblies

PART NO.	SIZE	TYPE	APPLICATION
87673693	3" × 16"	Gauge	5400/5500
47651825	1" × 12"	Press	5400/5500
87645554	3" × 13"	Press	5300/5400/5500

Scraper Assemblies

Inside:

Part No. 843364C92C (pack of 2)

Part No. 843364C92B
(bulk pack, 25 pieces)

Outside:

Part No. 819373C1

Application: for drill models 510, 620, 5100, 5300, 5400, 6200

- Complete assembly
- Heavy-duty cast scraper blades

Part No. 843364C92C

Drill Bearing/Flange Kit with Bolts

Part No. B95204

Application: Case IH grain drills using opener disk assembly Part No. 603020R92 (510, 5100, 5200, 620, 6200)

- Components necessary to replace bearing/flange in disk assembly 603020R92; kit also includes dust cap
- Bearing is pressed into the flange for easy installation
- Handy package for tool box or farm shop

Drill Bearing Kits

Part No. B94353 (with Bolts)

Part No. B94352 (with Rivets)

Application: Case IH grain drills using opener disk assembly Part No. 603020R92 (510, 5100, 5200, 620, 6200)

- Components necessary to replace bearing

Part No. B94353 with Bolts

Part No. B94352 with Rivets

Rotary Scraper

Part No. 100641A1

Application: Drill models 5400, 5500

- Recommended in abrasive or sticky soil conditions

Generic Cross Tillage Harness

Part No. 13929V3

Application: All Air Carts

ISO Tractor Harness

Part No. 84598817

Application: All Air Carts

RAIN AND DEBRIS KITS

Our clear rain and debris kit protects seed meters from the elements—shielding the meter area from rain, overspray during power-washing, and tire spray during transport. It also keeps dirt clods, crop residue, gravel and small stones from getting into the meter rolls. Two rain and debris kits are required per disk drill.

PART NO.	DESCRIPTION
47446028	25' and 30' kit
47446031	40' kit

ACCESSORIES AND MAINTENANCE

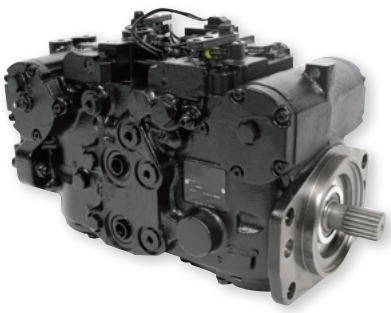
ACCESSORIES

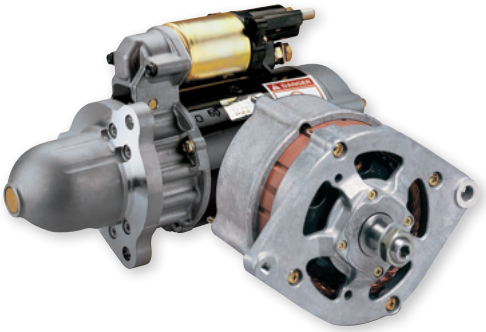
PART NO.	PRODUCT
PM-18308	AFS Precision Farming
PM-20057	Batteries
PM-18310	Harvesting Product Support
PM-18298	Hand Tool Product Guide
PM-20059	Hay Machine Product Support
PM-20084	Power Equipment Guide
PM-20107	Tillage Product Support
PM-18304	Shop Supplies & Safety
PM-18010	Sprayer Equipment
PM-17608	Twine & Net Wrap

WARRANTIES FOR CASE IH REMANUFACTURED PARTS

	DEALER INSTALLED WARRANTY*			CUSTOMER INSTALLED WARRANTY		
		PARTS	LABOR		PARTS	LABOR
REMAN ENGINES/ENGINE COMP						
Cylinder Heads, Camshafts, Crankshafts, Oil Coolers, Connecting Rods	12 months	Yes	Yes	12 months	Yes	No
Engines, Long Block, Replacement	24 months	Yes	Yes	24 months	Yes	No
Engines, Short Block	24 months	Yes	Yes	12 months	Yes	No
Water Pumps	24 months	Yes	Yes	12 months	Yes	No
Fuel Injection Pumps, Injectors	24 months	Yes	Yes	12 months	Yes	No
Turbochargers	24 months	Yes	Yes	12 months	Yes	No
REMAN DRIVELINES						
Axles, Clutches, Manual Transmission, Power Shifts, Power Shuttles	24 months	Yes	Yes	12 months	Yes	No
Torque Converters	24 months	Yes	Yes	12 months	Yes	No
REMAN GEARBOXES						
Rotor Drives	24 months	Yes	Yes	12 months	Yes	No
Torque Amplifiers	24 months	Yes	Yes	24 months	Yes	No
Wobble Boxes	24 months	Yes	Yes	12 months	Yes	No
REMAN ELECTRICAL						
Alternators, Controllers, ECUs, Instrument Clusters, Generators, Starters	24 months	Yes	Yes	12 months	Yes	No
REMAN HYDRAULICS						
Cylinders, Motors, Pumps, Valves	24 months	Yes	Yes	12 months	Yes	No
REMAN OTHER COMPONENTS						
A/C Compressors	24 months	Yes	Yes	12 months	Yes	No
ATS	24 months	Yes	Yes	12 months	Yes	No
Wheels	24 months	Yes	Yes	12 months	Yes	No
REMAN REPAIR PROGRAMS						
Wiring Harnesses	12 months	Yes	No	12 months	Yes	No
Electronic Components	18 months	Yes	No	18 months	Yes	No

**When installed by an authorized Case IH dealer.*





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NOTES

Sold and Serviced By:

FOR THE LATEST PRODUCT INFORMATION, STOP BY YOUR LOCAL CASE IH DEALER OR VISIT: WWW.MYCNHISTORE.COM

CNH INDUSTRIAL GENUINE PARTS

CASE IH

PM-21201 Issued 1/2022 Replaces: PM-20109