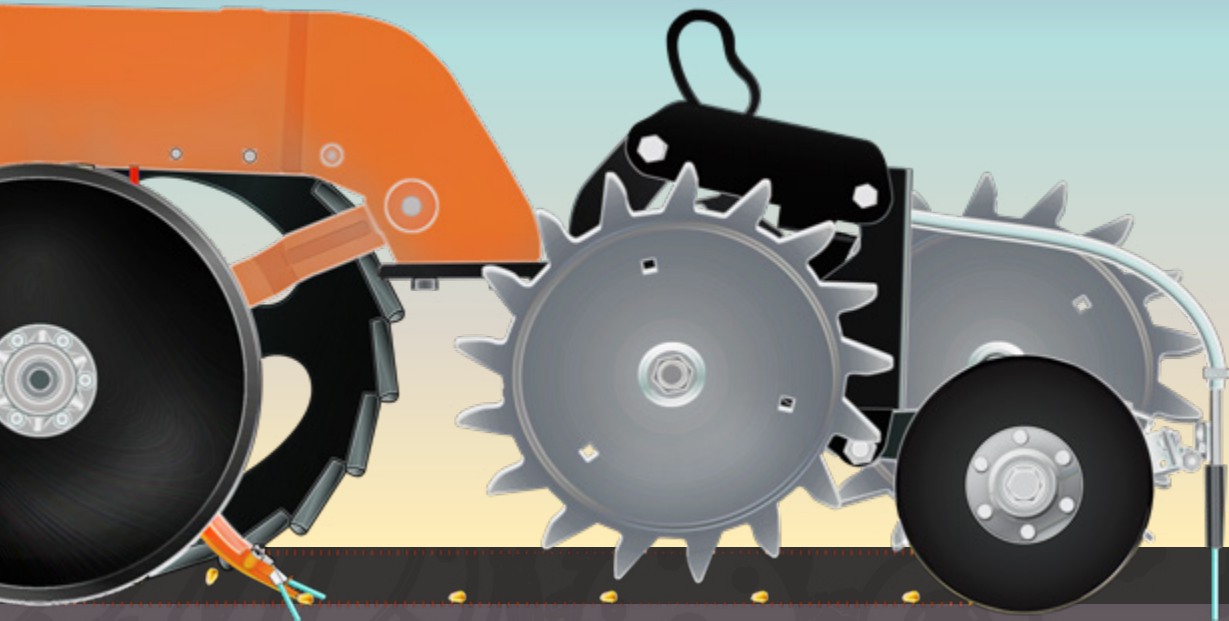


SEE WHAT'S **NEW!** FOR 2026

# BOOST YOUR YIELDS

WITH OUR INNOVATIVE PLANTING ATTACHMENTS



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**WWW.SCHAFFERT.COM**  
**308-364-2607**

**Schaffert**  
manufacturing & sales

# THE REBOUNDER®

Over a decade ago, Paul Schaffert, CEO of Schaffert Mfg. and a producer himself, was confronted with the issue of seed bounce and inconsistent spacing in the furrow. He understood how critical these two aspects of planting were and how they effected overall yields. As one of the leading No-Till innovators in the Midwest, he made it his goal to engineer a product that would address these issues.

After years of testing prototypes and countless hours in the field, Paul invented the Rebounder Seed Cover, a simple, but sophisticated tool that addresses the issues of seed placement and spacing.

The Rebounder's unique, spoon shape design forms to the V shape of the furrow.

Paul recognized the importance of creating a product that would work in conjunction with this V shape and not against it. Many of the firming products on the market today work against this theory—especially in tougher clay type soils—by creating additional sidewall compaction, pressing in the seed V as they apply pressure.

The Rebounder's spoon shape design flows gently down the furrow without disturbing the soil or creating any additional compaction around the seed. The spoon shape design gradually narrows as it drops below the top soil surface to follow the V shape that is created by the double disc openers.

The Rebounder's unique half moon design on the bottom tip prevents the Rebounder from dragging the seed and allows it to run 3/8" off the bottom of the furrow.



*You only have  
**1 chance**  
to get it right!*

*Rebounders  
eliminate seed bounce  
& tuck them in the bottom*

## **BENEFITS OF THE REBOUNDER'S CONCAVE DESIGN**

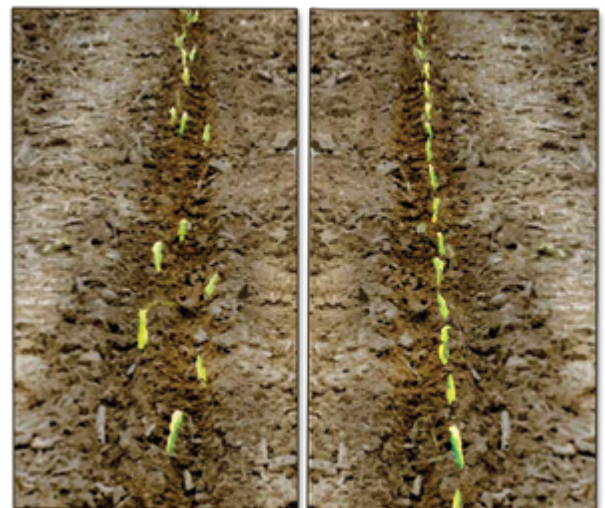
- Smooth concave design keeps the seed covered in the furrow and prevents seed bounce
- Built-in neck flex allows for flexibility of the Rebounder in all soils
- Upside down spoon shaped design forms to the seed V
- Unique half moon tip prevents seed drag
- Rebounder improves germination and consistent emergence

## **ELIMINATES COMMON PROBLEMS**

- Rebounder will not build up with mud
- Will not leave seeds lodged or pressed into sidewalls
- Will not bunch seeds

## **EASE OF INSTALLATION**

- Designed to fit planters and drills
- Easy to install, less than 5 minutes per row



### **PLANTED WITH:**

Firming attachments      Rebounders

### **SEED SPACING:**

Inconsistent      Consistent

### **EMERGENCE:**

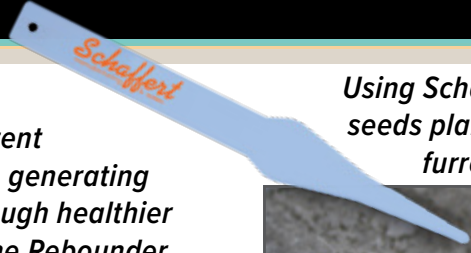
Uneven      Uniform

**ee** 5 or 6 years ago I put one IH 800 Rebounder on my planter and planted 100 acres. I ran short of time and after 100 acres I put the other 5 rows of Rebounders on. When I went to spray the field, the one row planted with the Rebounder was 8" tall and the other 5 rows were only 4"-5" tall. What a difference the Rebounders made! - **H.R., KS**



Seed  
V

The Rebounder maintains consistent depth placement, generating higher yields through healthier plants. Without the Rebounder, inconsistent depth placement occurs with seeds landing 3/4" to 1-3/4" deep. Shallow planted seeds can cause poor root structure and reduced yields.



Using Schaffert's Dig-It Seed Finder to reveal seeds planted evenly and consistently in the furrow with the Rebounder



Case IH 1200



Case IH 2100



Great Plains Clear-Shot®



John Deere ExactEmerge®



John Deere Drills



Kinze EdgeVac®



Precision BullsEye® & WaveVision®



Firmer Replacement



White 9000

Uneven seed spacing and inconsistent depth placement are two of the top contributors to decreased yields. The Rebounder has been eliminating these two issues for over a decade.

Installing the Rebounder is easy. We have Rebounders that fit most planters and drills.

For most planters the Rebounder is attached to the seed tube. We've utilized this mounting method for years and have found it to be safe and effective. **The Rebounder is designed to work with the seed tube, not against it, serving as a stabilizer that keeps the seed tube in the center of the furrow.**

Other attachments move side to side and place approximately

1.5 pounds of pressure on the seed, causing uneven emergence. This pressure on the seed pushes it deeper in softer soils and leaves it shallower in firmer soils creating a wave effect in the depth placement.

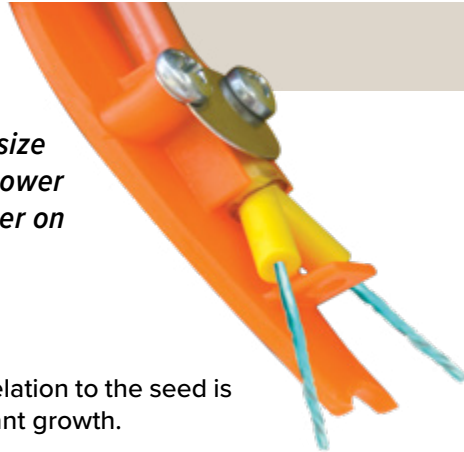
The Rebounder moves up and down with the planter to funnel the seed to the bottom of the seed V. This ensures it will eliminate seed bounce, uneven spacing, and seeds flipped on top of the soil.

## THE RESULTS

A product designed to give you **consistent seed placement** and **accurate depth control**, leading to **improved germination** and **consistent emergence**. The Rebounder Seed Cover keeps your seeds in check.

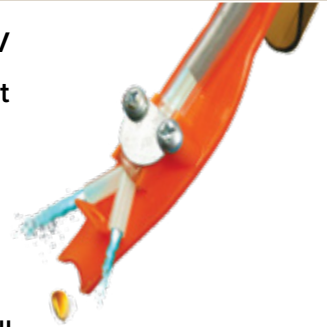
# IN-FURROW FITTINGS

*Yellow Y has half size holes for placing lower volumes of fertilizer on the side walls*



## Y-NOT SPLIT-IT®

- Fertilizes sidewalls of seed V
- Ensures that the seeds won't be drenched
- Apply 6-12 gallons in-furrow with the original clear Y or 1-6 gallons with the new yellow Y
- Less than 5 minutes to install



Fertilizer placement in relation to the seed is the key to successful plant growth.

To accommodate your specific needs, **each Rebounder has the option of allowing liquid fertilizer to be applied in various locations in relation to the seed.**

We recommend you consult with your agronomist on which fitting will work best for your agricultural program.

### IT'S A FACT:

Plants require 14 essential nutrients for healthy growth. The absence of any one nutrient in the soil can limit plant growth, even when all other plant nutrients are present in adequate amounts.

The three micro-nutrients that are essential for food production and quality are nitrogen, phosphorus and potassium.

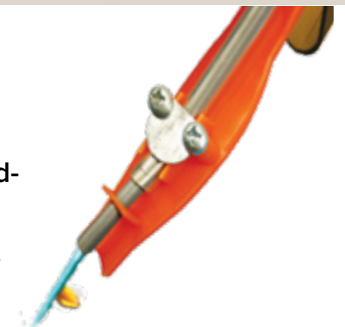
## STRAIGHT SHOT™

- Places liquid directly with the seed from under the Rebounder
- Keeps liquid off wheels and discs
- Secured with metal plate
- Works with planters and drills



## HOSE HOLDER™

- Places liquids with the seed
- Keeps liquid off discs of planter or drill
- Hose is secured with molded-in tab
- Distributes liquids evenly in-furrow



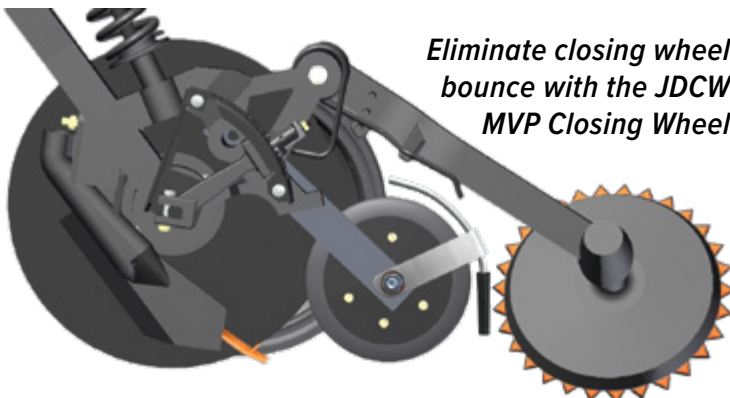
*Tube for John Deere 9" & 10" Press Wheel*

## STAINLESS STEEL TUBES

- Works with planters and drills
- Effective liquid placement
- Durable, rust-free stainless steel
- Easy installation
- Great for starter application
- Works with Rebounders



*Chad's Tube™ for John Deere drills*

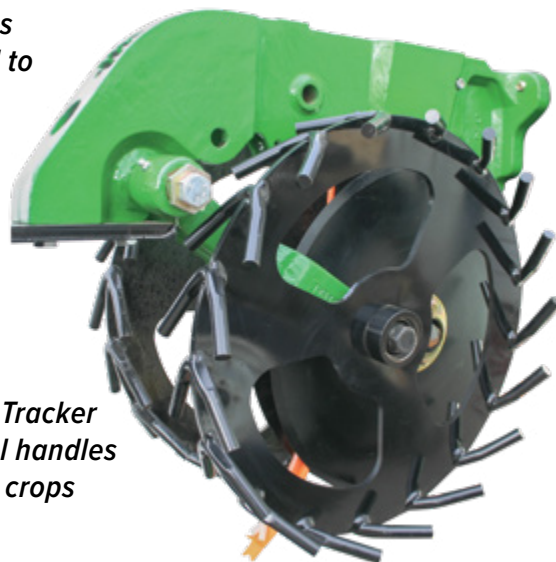


*Eliminate closing wheel bounce with the JDCW MVP Closing Wheel*

# CHICKEN TRACKER™



*4" Chicken Tracker press wheel gives better seed to soil contact*



*16" Chicken Tracker gauge wheel handles heavy cover crops*

## PREPARES THE SEED BED

- Mulches and mellows the soil over the seed bed
- Firms soil over the row
- Does not smear soil like rubber press wheels can
- The tines apply three points of pressure at all times
- Eliminates air pockets
- Allows for better seed to soil contact

## ELIMINATE COMMON PROBLEMS

- Helps eliminate mud build-up
- Will not plug with root balls
- On a hot windy day the trench will not crack back open

## WHERE THEY WORK —SUITABLE FOR MANY SOILS

- Made to work in tough soils
- Works in no-till or conventional

## EASE OF INSTALLATION

- Takes the place of your original press wheel
- Easy to install, less than 5 minutes per row

Standard press wheels can sometimes smear the seed V shut. When the soil dries out, the furrow cracks back open and you lose seed to soil contact.

Schaffert Mfg.'s **4" Chicken Tracker press wheel** eliminates this by crumbling the top and side walls, mellowing the soil, and removing the air pockets. It helps eliminate mud buildup and plugging with trash. This leads to easier planting, better emergence, and higher yields.

The Chicken Tracker is a **direct bolt-on** replacement for your old closing wheels and mounts with the same hardware.

For Case IH planters and drills we have 6" and 4" Chicken Trackers. Both work well in no-till or minimum till fields. However, the **4" wheel has advantages over the 6" wheel, as it will work inside the 4" area**

**being tilled by the covering discs, rather than having the 6" press wheel ride up on firm soil and not compress soil down around the seed.** We also have 4" and 2" Chicken Trackers to fit many other makes and models of planters and drills.

Schaffert Mfg.'s **16" Chicken Tracker gauge wheel** offers many of the same advantages as the Chicken Track press wheel. It **provides better traction and reduced plugging in wetter conditions, longer wear life, and works well in heavy cover crops as well as in no-till and conventional.** The Chicken Track gauge wheel prevents mud from building up between it and the disc, cleans trash away from the discs, reduces compaction, and gives consistent seed depth control.

## STANDARD 2x13 PRESS WHEEL



## CHICKEN TRACKER

# MOHAWK™ & ZIPPER™

## MOHAWK & ZIPPER ANGLED SPIKED CLOSING WHEELS

The Mohawk and Zipper work in all soil types. These two 13" spiked closing wheels also work very well with the G2/G4 liquid fertilizer disc.



*The Zipper closes the furrow in all planting conditions.*



### FEATURES—DESIGN—BENEFITS

- Feathers the soil in the seed V with its wide track design
- Designed to break up compaction without being too aggressive
- 1" spike does not disturb seed placement
- Allows for better seed-to-soil contact

### ELIMINATES COMMON PROBLEMS

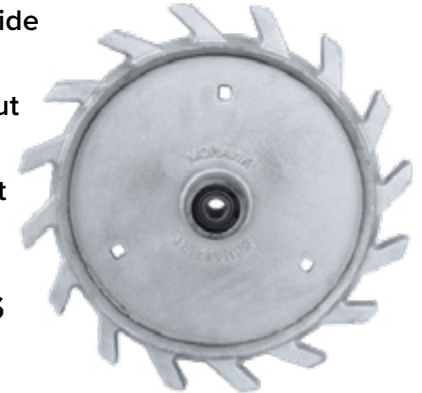
- Compacts the soil better than straight-fingered wheels
- Rototills soil with minimal compaction into the furrow
- Eliminates air pockets
- In wet soils, the trench won't crack back open on a hot windy day

### WHERE THEY WORK—SUITABLE FOR MANY SOILS

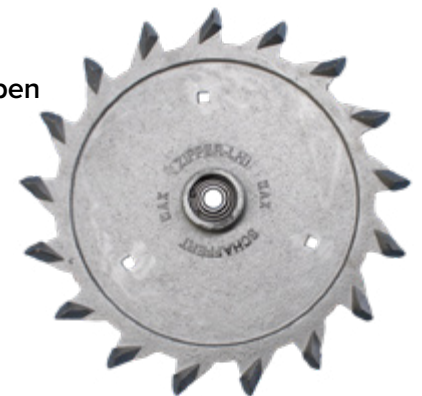
- Made to work in tough soils
- Work in no-till or conventional without having to change wheels

### EASE OF INSTALLATION

- Can be used with or without the 4 Link Closer and G Series
- Easy to install



*Cast Mohawk Max*



*Cast Zipper Max*



*Furrow left open with rubber closing wheels*

Sidewall compaction left from double disc openers on planters makes it hard for standard closing wheels to close the seed V properly in all soil types and conditions. In wet heavy textured soils, standard press wheels tend to smear the soil over the seeds and do not break up the sidewall compaction left by the double disc openers. Then when a hot windy day comes after planting in wet soil conditions, the seed V will often crack back open, exposing the seeds.

If the seed V does stay shut after planting with standard closing wheels, many times the sidewalls of the seed V stay compacted, not letting the roots of the plants penetrate the sidewalls. If they cannot penetrate the sidewall, the roots will not build a good brace root system, and the plants will tend to fall over later in the season.

Schaffert Mfg.'s Mohawk and Zipper closing wheels eliminate these common problems.

# CLOSING WHEELS

MOHAWK	ZIPPER
<p>Mohawk wheels crumble and firm the seed V shut, creating a flat ice cream cone shape with the soil in and above the seed V</p>	<p>Zipper wheels create an ice cream cone shape with the soil in and above the seed V</p>

## DIFFERENCE BETWEEN MOHAWKS & ZIPPERS

The **Mohawk won't pull quite as much soil as the Zipper** but it also does a good job in **slightly hilly and flatter ground**.

The **Zippers are more aggressive** as they put a little more soil over the furrow especially if you are in **hills or up and over terraces**. The Zipper works better on **contour planting** as your closing wheels won't be in the trench like regular closing wheels will.

**Zippers rototill the soil**, breaking up the side walls as they compact the soil around the seed, taking out the air pockets that other spiked closing wheels will leave, and creating **better seed to soil contact**.

## ZIPPER DISTINCT FEATURES OVER THE MOHAWK

- More aggressive
- **Breaks up and rototills soil** in for better compaction
- **Pulls more soil from the sidewall in over the seed** because the spikes are angled out and down
- **Sheds mud better**
- **Rocks or root balls will not stick**

## DIFFERENCE BETWEEN SCHAFFERT MFG WHEELS & OTHER WHEELS

In a study performed by Beck's Hybrids 2015 Practical Research in wet, less than ideal conditions, they found an average **22.6 bushel per acre advantage** to using Zipper Closing Wheels instead of solid rubber press wheels.

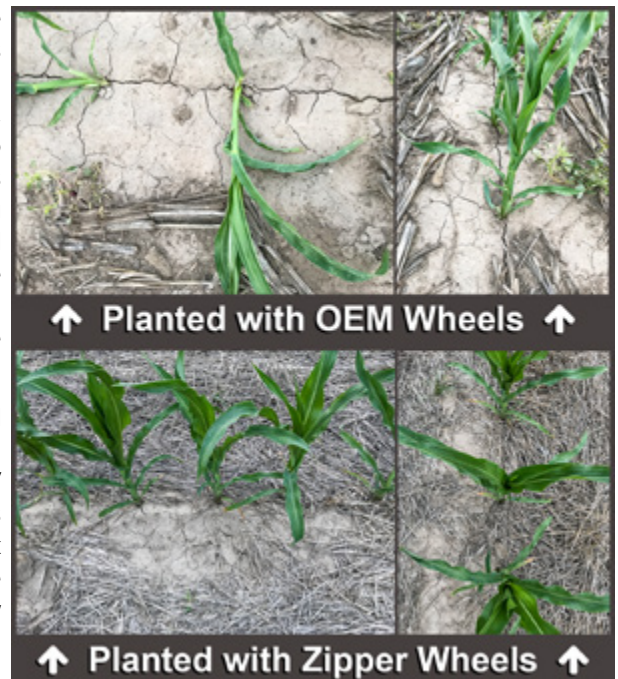
*"Wheels that crumbled the seed trench shut from the sides generally outperformed wheels that applied more pressure above the seed. In the wet conditions we were planting into, this action helped decrease compaction above the seedling and allowed for more even and uninterrupted emergence."*  
– Beck's



See the difference between a row closed with a competitor's closing wheel (left) and a row closed with the Mohawk (right)

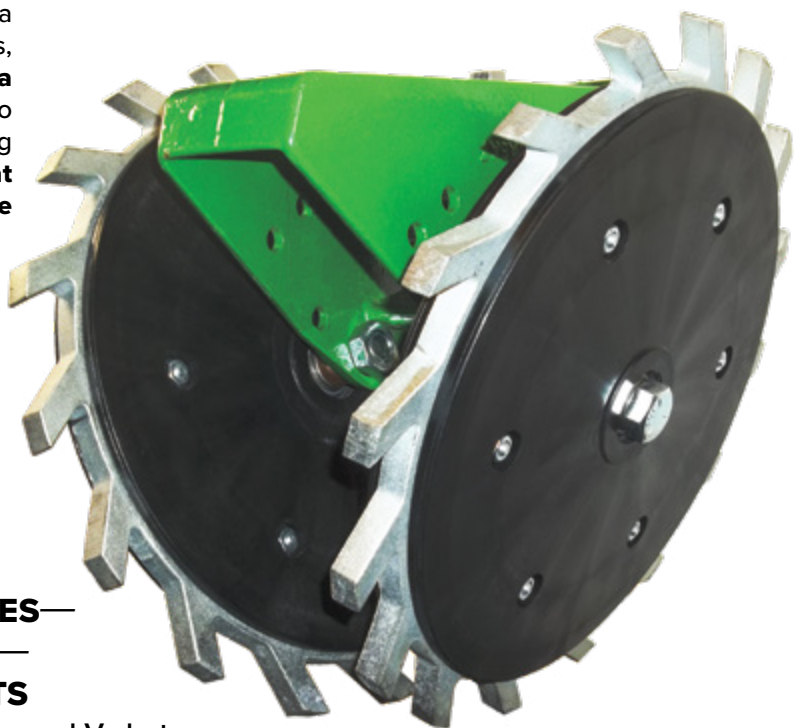
These photos to the right were taken comparing two fields right across the road from each other at the same time. The planter planting corn into corn stubble had regular press wheels. The planter planting corn into wheat stubble had Zipper closing wheels. The ground was muddy when these plants were planted, the soil heavy and wet.

The weather turned hot and windy after planting, and you can see where the seed V closed with the regular press wheels has cracked back open. Here, the corn plants are leaning, and unable to throw out good root systems.



# MOHAWK

*Farm Journal* agronomist Ken Ferrie conducted a three-year study examining closing wheel designs, including the Mohawk. He classified the **Mohawk as a “firming spiked closing wheel”**, which are designed to provide both crushing action of the sidewall and firming above and around the seed. **Ferrie concluded that in the toughest no-till conditions, wheels like the Mohawk get the job done the best.**



The “Old Reliable” Mohawk

**FEATURES—  
DESIGN—  
BENEFITS**

- Stitches seed V shut
- Uses existing wheels and bearings
- Longer wear, heavy duty cast steel spikes
- Can simply replace tire with Mohawk ring, saving you \$\$\$
- Breaks down compacted sidewall and closes the furrow at the same time



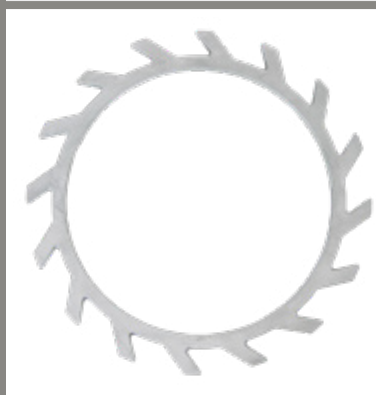
Mohawk after 9000 acres of wear

**How many acres will it take to pay off my Mohawk closing wheels?**

	12-ROW PLANTER	16-ROW PLANTER	24-ROW PLANTER
\$4.50 BU/A CORN	126 acres	168 acres	252 acres
\$5.50 BU/A CORN	103 acres	137 acres	206 acres
\$6.50 BU/A CORN	87 acres	116 acres	174 acres

*Data provided by 2022 Beck’s Practical Farm Research, p. 21-24*

MOHAWK CLOSING WHEEL OPTIONS



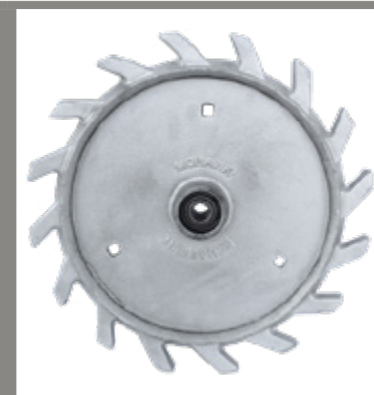
MOHAWK RING



MOHAWK



CAST MOHAWK



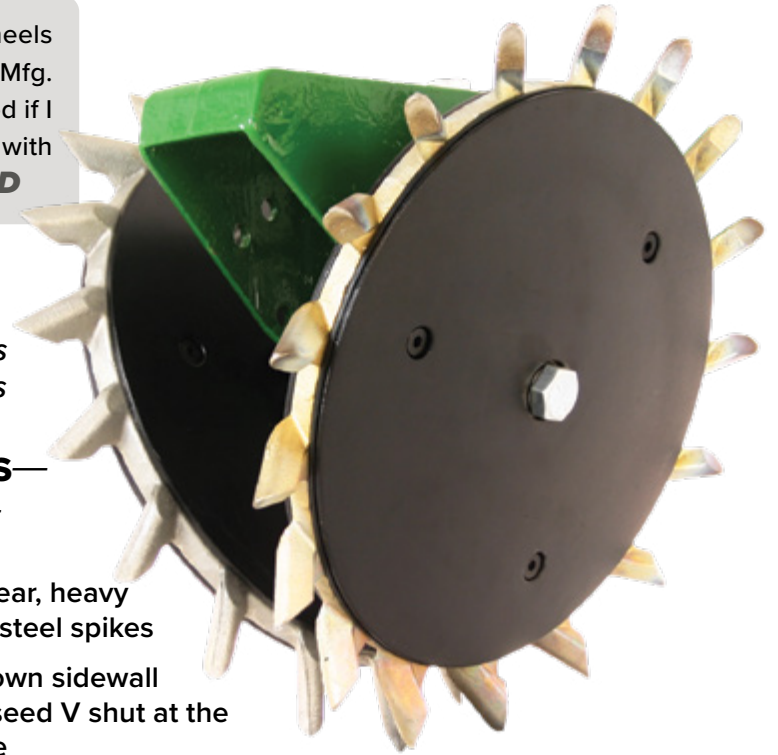
MOHAWK MAX

# ZIPPER

**ee** I was having problems with rocks in the closing wheels last year and was getting mad... Called Schaffert Mfg. to get more Rebounders and fertilizer tubes. They asked if I would try the "Zipper" closing wheel. I was impressed with the Zippers, they didn't pick any rocks up! - **B.M., SD**



The Zipper repels rocks & root balls



**FEATURES—  
DESIGN—  
BENEFITS**

- Longer wear, heavy duty cast steel spikes
- Breaks down sidewall and zips seed V shut at the same time
- Tubular design of spike allows it to release soil and eliminate plugging while compacting the soil around the seed
- As the Zipper closes it creates indentations which allow moisture to sink in
- Angle design rototills the soil into the seed V

**How many acres will it take to pay off my Zipper closing wheels?**

	12-ROW PLANTER	16-ROW PLANTER	24-ROW PLANTER
\$4.50 BU/A CORN	155 acres	206 acres	310 acres
\$5.50 BU/A CORN	127 acres	169 acres	253 acres
\$6.50 BU/A CORN	107 acres	143 acres	214 acres

Data provided by 2022 Beck's Practical Farm Research, p. 21-24

Z I P P E R C L O S I N G W H E E L O P T I O N S



**ZIPPER RING**



**ZIPPER**



**CAST ZIPPER**



**ZIPPER MAX**

# CAST CLOSING WHEELS



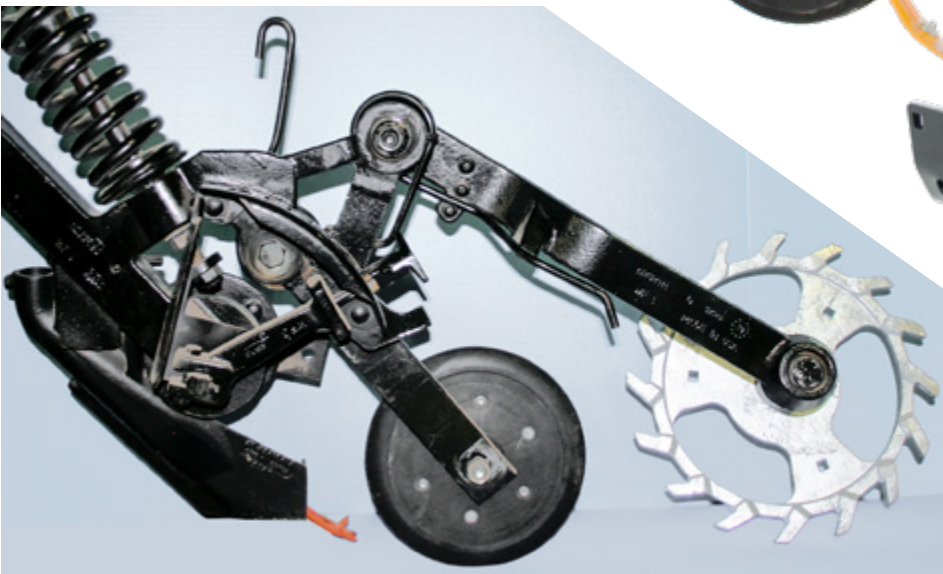
*Cast Zippers with 4 Link Closer & G2 fertilizer disc on a John Deere planter*

**All-cast Zipper and Mohawks eliminate buildup** due to not having plastic rims catching mud on each side.

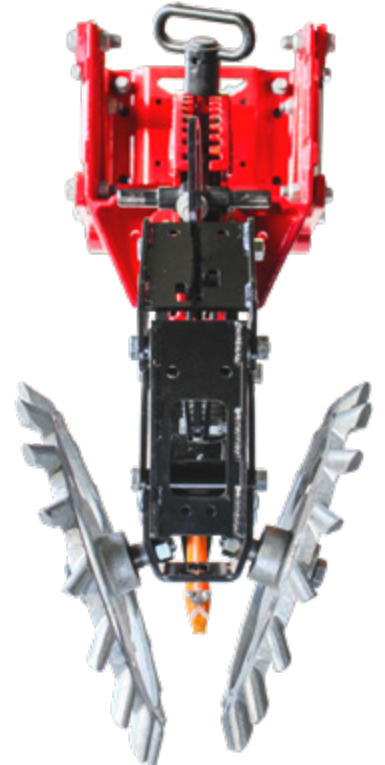
We have been testing these cast wheels since 2019 in very wet soils and **people have been impressed with how clean they stay in wet sticky soils.**



*Cast Zippers shown with 4 Link Closer's V closing attachment & Rebounder Seed Cover on a White planter*



*All-cast Mohawk and Rebounder on a John Deere drill*



## CONVERSION KITS


We have conversion kits that **transform your single press wheel to dual closing wheels.** Works great with our Mohawk and Zipper wheels.

Kits fit Case IH and White 5000-6000 series planters.



**Eliminated plugging and wrapping** with the **NEW** all-cast **Zipper Max** and **Mohawk Max**. These wheels have a heavier, wider, closed-spoke design.

The Max design's angles help the wheel **shed mud better**. The added weight **keeps the wheel from bouncing** while **running less down pressure**.

 We feel the Zipper Wheels are the best choice for no till because they wipe out the sidewall compaction that is so critical to allow roots to easily penetrate soil in the sidewall area.

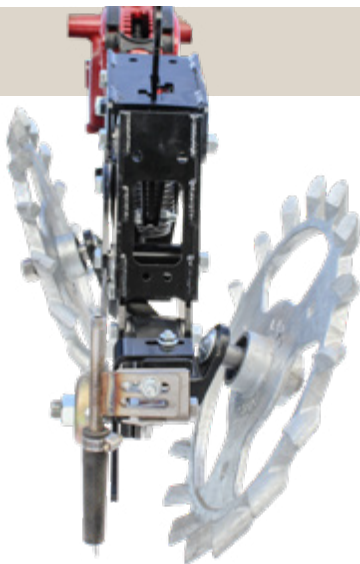
The last 220 pairs that went on planters this late spring were the new style all-cast Zipper. These wheels eliminated the wet soil from sticking to the flat spots in-between the teeth. **We witnessed these wheels going through impossible-to-close conditions with unbelievably good results** in 2019.

These wheels zip the furrow shut and leave a slight dome of tilled soil on top of the seed. - **B.H., OH**

*Zipper Max*

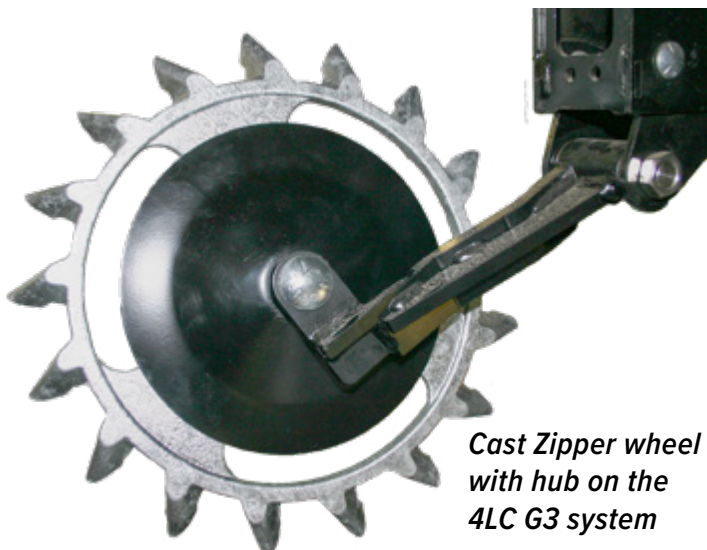


## COVER CROPS



Many of the spiked wheels on the market wrap or plug in cover crops. The **Zippers and Mohawks are less likely to plug or wrap in heavy cover crops**. If they do start to wrap, one can order **cover plates** (shown to right and below) as an option to **prevent wrapping of cereal rye, vetch and other vining crops**.

We have even had farmers **switch the Zippers around** (shown to left) running the right on the left side of the planter and the left wheel on the right with the fingers turned inward to eliminate wrapping of cover crops.



*Cast Zipper wheel with hub on the 4LC G3 system*



*Cast Mohawk wheel with hub on Case IH 500 drill*

# MAX CAST WHEELS

## MOHAWK MAX™ & ZIPPER MAX™



4 Link G4 with  
Mohawk Max

*Zipper Max & Mohawk Max  
wheels shed mud better &  
eliminate wrapping*



4 Link G3 with  
Zipper Max

### FEATURES—DESIGN—BENEFITS

- **No wrapping** in tall cover crops
- New designed angles **shed mud better**
- Wider base for **better seed to soil contact**
- **Angled fingers** release soil as they exit the soil
- Heavier design lets you **run less down pressure**
- **No rooster tailing** of soil like straight finger wheels do
- Closed spoke design **eliminates trash or stalk plugging**
- Heavier design helps **keep wheel from bouncing** at higher speeds on no-till drills

The **NEW** Mohawk Max Closing Wheel and Zipper Max Closing Wheel have all features and advantages of the original all-cast Mohawk and Zipper with some new improvements.

First off, they have a wider base for more firming of the closed seed v, more weight to aid in less down force (12# total weight) to close the seed v and some more design cues to reduce build up in wet soils.

We eliminated the open spoke design so these can be used on most planters and air drills in no-till to eliminate trash plugging.



*The Zipper  
Max has  
spikes that  
angle out and  
down, pulling  
in and rototilling  
more soil from  
the sidewall*



Mohawk Max



Zipper Max

# CAST WHEELS FOR DRILLS

## CAST WHEELS FOR DRILLS : CASE IH 500 NEW HOLLAND JOHN DEERE

Both the **all-cast Zipper** and **Mohawk** and the **NEW** all-cast **Zipper Max** and **Mohawk Max** work well on John Deere, Case IH 500 and 500T, New Holland, and other single press wheel drills.

We have special designed **eccentric bolt kits** for these drills that change the pitch on the back side of the closing wheel, allowing the wheel to bring soil into the furrow, enhancing seed to soil contact.



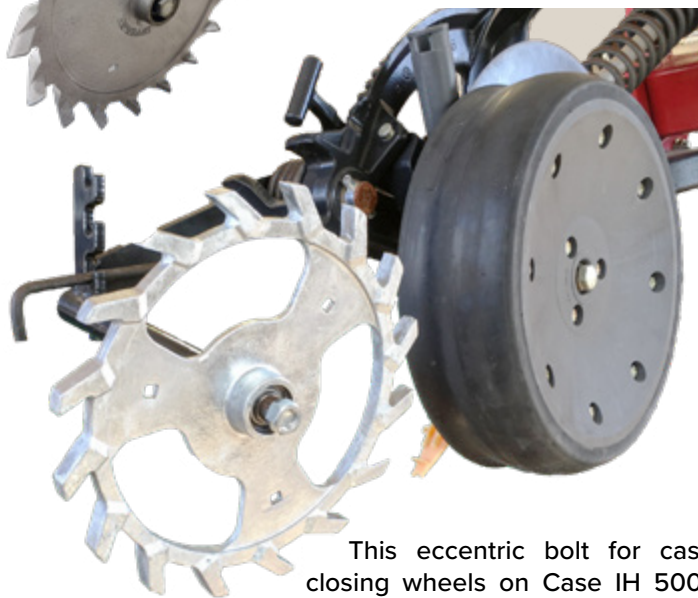
*Zipper Max wheel works well on these single press wheel drills*



*All-cast wheel & stainless steel tube over the press wheel of a John Deere drill*

### JOHN DEERE DRILL

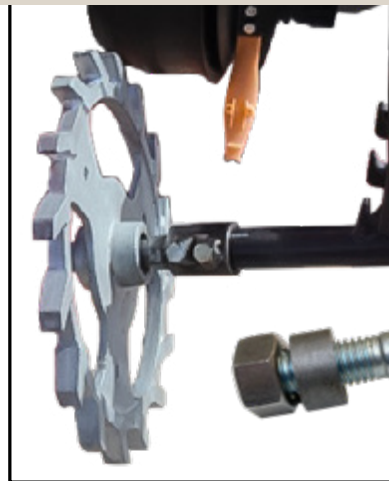
*Eccentric bolt kit for John Deere 750 drills and other single press wheel drills*



This eccentric bolt for cast closing wheels on Case IH 500, 500T, and New Holland drills **changes the pitch** in on the back side of the closing wheel. This **allows the wheel to bring soil in** into the furrow behind the wheel, compacting it down around the seed.

### CASE IH 500 DRILL

*This eccentric bolt kit fits Case IH 500, Case IH 500T & New Holland drills*



The updated **easy adjust** eccentric bolt makes it simple for the farmer to set all the rows the same. Once the pitch of one row is set to close the seed trench properly, the rest of the rows can then also be set to the same setting.

# DOUBLE V ZIPPER™ CLOSING

## DOUBLE V ZIPPER for GRAIN DRILLS

*all cast Double V Zipper*

**FITS ALL DOUBLE DISC OPENER DRILLS & PLANTERS WITH A SINGLE PRESS WHEEL**



*cast VA Zipper*

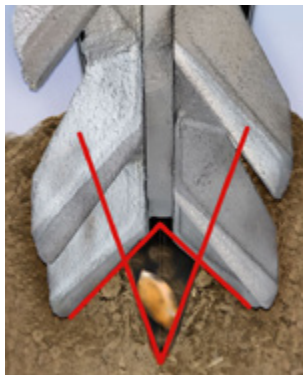
- Destroys the **entire side walls**
- **Does not go too deep** in the soil
- Closes the seed V with an upside down  $\Lambda$
- Will not bury itself; goes to whatever depth you plant
- Leaves seeds placed in the bottom; **will not disturb seeds**
- **Does not hair pin** or push straw and residue down in with the seed
- Mellows soil in the seed V, **enhancing plant growth** and creating a more **even emergence**

### HOW IT WORKS

Double disc openers create a V in the soil where the seeds are laid.

The Double V Zipper creates an inverse V—or  $\Lambda$ —over the seed V.

Seeds pass straight through the middle of the wheel while the wheel's fingers destroy the side wall down in around the seed.



### ELIMINATES COMMON PROBLEMS

A common problem area is the rows behind tractor tires and drill wheels. These rows often have poor crop stands because the tires compact the rows and don't leave enough soil to establish good seed to soil contact.

The Double V Zippers will totally destroy these hard packed rows, breaking up the compaction while mellowing the soil in over the seed, allowing for better seed to soil contact and healthier plant stands.



## NEW WHEEL & ARM ASSEMBLY FOR JOHN DEERE AIR SEEDERS

- **NEW** John Deere 1890-1990 closing wheel arm
- **NEW** Double V Zipper closing wheel
- **Runs over top of seed V** rather than to one side of seed furrow
- Double V Zipper breaks in both side walls of the seed V, **eliminating side wall compaction**
- Replaces OEM angled cast closing wheel and arm
- Eliminates 9" or 10" press wheel in center
- Helps **eliminate wear on pins and bushings** on row units due to less side pressure from OEM angled cast closing wheels
- **Chicken Tracker™** gauge wheel reduces mud build-up and lasts longer than OEM rubber tires
- Replace John Deere seed tab with the **Rebounder® Seed Cover**
- **Rebounder with Straight Shot™** for fertilizer eliminates having to use metal fertilizer tubes

*Standard metal tubes will splatter fertilizer all over the drill*



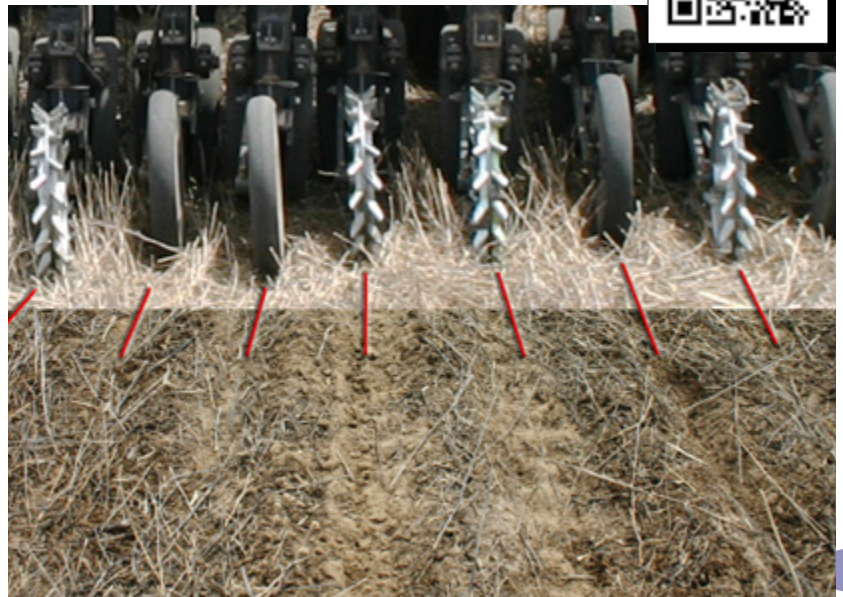
*Straight Shot Rebounder*



WHY NOT **BREAK BOTH SIDES OF THE SEED V IN** RATHER THAN ONLY ONE SIDE WITH THE JD OEM CAST CLOSING WHEEL?

Press wheels on double disc opener drills the **Double V Zipper** wheel replaces:  
1x12 – 2x13 – 2x14 – 3x12 – 4x12 – V-type – Double groove – Rounded standard

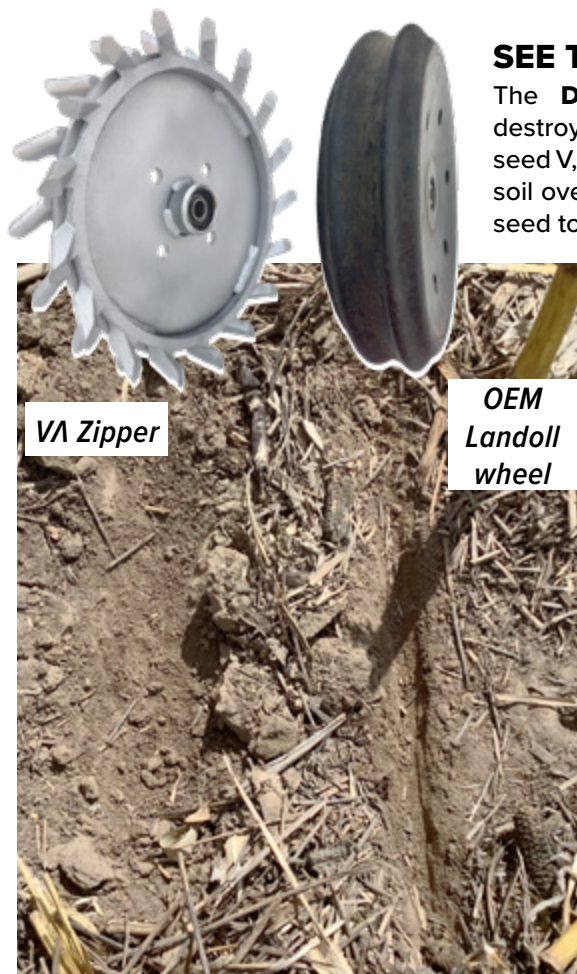
*VA Zipper video* →



*Double V Zipper & Rebounder on Tye 2015 drill*



*Double V Zipper with Wheel Scraper on John Deere drill*



*VA Zipper*

*OEM Landoll wheel*

### SEE THE DIFFERENCE

The **Double V Zipper** will destroy the side walls of the seed V, leaving crumbly mellow soil over the seeds, enhancing seed to soil contact.

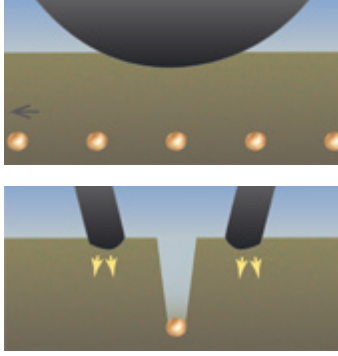
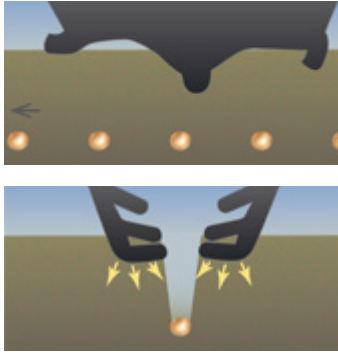
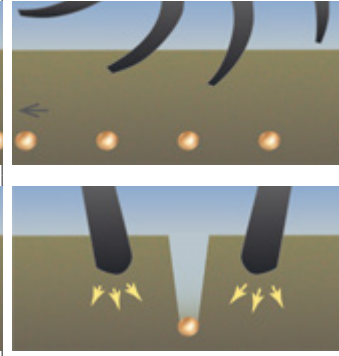
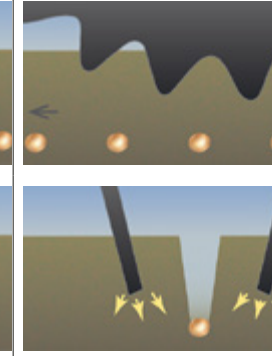
Standard rubber **OEM** tires will leave the side walls compacted, making it harder for roots to penetrate the soil and establish a stable stand.

*Seed trench closed with Double V Zipper wheel (left) versus*

*trench closed with standard rubber tire (right)*

**WHY SETTLE WITH A STANDARD RUBBER PRESS WHEEL WHEN YOU CAN BOOST THE PERFORMANCE OF YOUR DRILL WITH THE DOUBLE V ZIPPER?**

# COMPARING DIFFERENT TY

Type of Closing Wheel:	SMOOTH OEM	SURFACE ANGLE WHEEL	CURVED SPOKE	NOTCHED SHAPE SPOKE
				
<b>ON A SCALE FROM 1-10, 10 BEING THE BEST, LISTED IS HOW WE</b>				
<b>Sidewall breakup</b> <i>shatters, chunks, smears, rototills</i>	<b>1</b> smears in wet soil like a trowel on concrete	<b>2</b> horizontal surface pack; can leave air pockets	<b>7</b> stabs & releases	<b>8</b> shatter & chunk *needs a drag chain to break up clods
<b>Seed to soil contact</b> <i>how well compacts soil</i>	<b>1</b>	<b>4</b>	<b>3</b>	<b>2</b>
<b>Works in all soils</b> <i>cover crop, no-till, conventional</i>	<b>5</b> fair-poor in all 3	<b>5</b> best in conventional	<b>5</b> fair in all 3	<b>5</b> fair in all 3
<b>Depth control</b>	<b>9</b>	<b>9</b>	<b>5</b>	<b>6</b>
<b>Wear life</b>	<b>8</b>	<b>9</b>	<b>9</b>	<b>6</b>
<b>Overall Average</b>	<b>4.8</b>	<b>5.8</b>	<b>5.8</b>	<b>5.4</b>

## RECOMMENDATIONS FOR RUNNING ZIPPERS OR MOHAWKS vs SPIKED OR CURVED CLOSING

The Zippers put a little more soil over the furrow especially if you are in hills or up and over terraces. They keep a down pour of rain from running down the seed V. It won't crust as bad with the Zippers when you get a hard rain shortly after planting and before the soil has had time to dry some and settle in. **The Zipper closing wheels act like a rototiller as they break up the side walls, pulling in the soil while mellowing the soil around the seed to create an ideal seed bed for the seed to grow in.** As the Zippers rototill the soil they also compact the soil around the seed taking out the air pockets that other spiked closing wheels leave chunks of soil and air pockets in the seed trench with poor seed to soil contact.

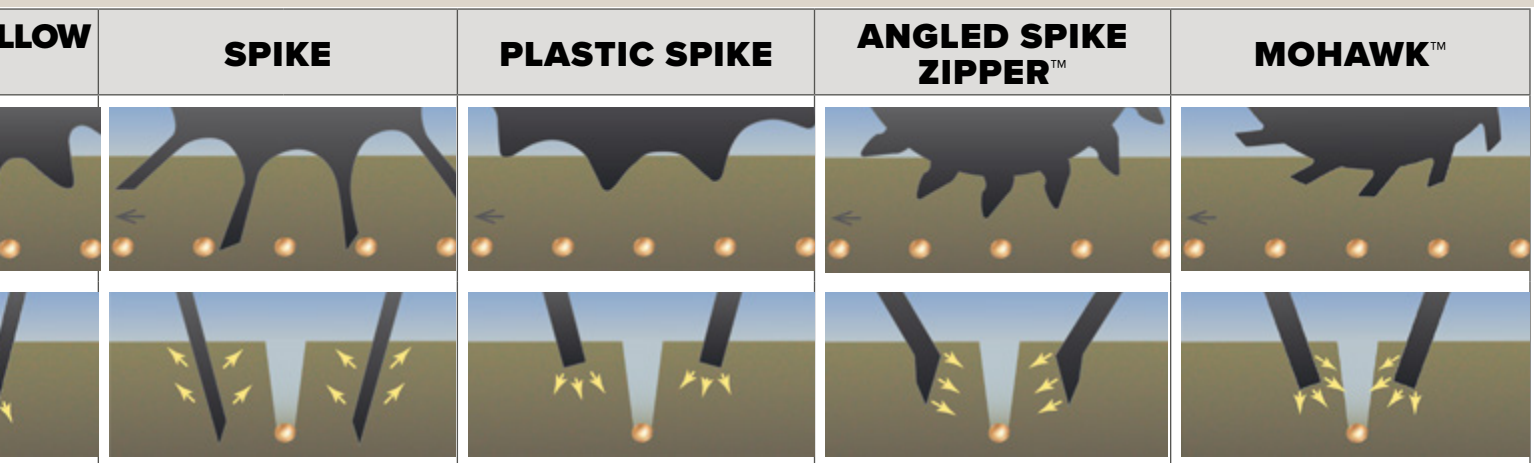
**The Mohawk won't pull quite as much soil as the Zipper but it also does a good job in slightly hilly and flatter ground.** If you already

have plastic press wheels with tires on the planter now then you can save money by installing the Mohawks in the plastic rims you already have. **The Mohawk and Zipper are two of the most reasonably priced closing wheels on the market.** The Zippers pull soil about 1/2" to 3/4" farther away from the furrow than any other wheel on the market, which makes them the choice when farming contours or up and down hills.

Differences of Mohawks and Zippers compared to a straight fingered or curved finger wheel:

1: Some of the straight finger wheels will re-loosen the soil as they exit which can cause the seed V to dry out and create germination problems. **The Mohawks' and Zippers' wheel spokes are angled such and as they exit the soil the angle of the teeth on the Mohawks**

# TYPES OF CLOSING WHEELS



ALL EACH WHEEL PERFORMS ON THE FOLLOWING CATEGORIES:

	<b>RUBBER</b>	<b>SPIKE</b>	<b>PLASTIC SPIKE</b>	<b>ANGLED SPIKE ZIPPER™</b>	<b>MOHAWK™</b>
Stabs in to seeds		<b>8</b> 2 Spikes spades or chunks *needs a drag chain to break up clods	<b>6</b> stabs and leaves spade indents	<b>9</b> rototills, compacts and releases *no drag chain needed	<b>8</b> shatters, compacts and releases *no drag chain needed
Breaks up clods	<b>0</b>	<b>2</b> *breaks soil only on one side	<b>7</b>	<b>9</b> *spikes are angled, leaving the soil compacted while releasing soil as it exits beside the furrow	<b>9</b>
Leaves no-till	<b>1</b> only no-till	<b>4</b> no-till & conventional	<b>8</b> good no-till & conventional fair cover crops	<b>9</b> very good in all 3	<b>9</b> very good no-till & conventional
Disturbs seeds	<b>1</b>	<b>5</b>	<b>7</b>	<b>9</b> doesn't disturb the seeds	<b>9</b> doesn't disturb the seeds
Wear life	<b>6</b>	<b>7</b>	<b>1</b>	<b>10</b> excellent wear life	<b>10</b> excellent wear life
Overall Score	<b>3.2</b>	<b>3.8</b>	<b>4.8</b>	<b>9.2</b>	<b>9.0</b>

## CLOSING WHEELS

**1:** **Zippers and Mohawks release the soil leaving it compacted around the seed eliminating air pockets in the seed trench.**

**2:** A lot of the straight finger wheel companies want you to run one rubber wheel and one spike wheel so the spike wheels don't spade up seeds. They can go too deep if you run both. Most of the straight fingered wheels chunk soil into the seed V leaving air pockets that can cause leaching underground. You can run both Mohawks and Zippers because they don't go too deep and they don't chunk the soil in or spade up seeds in the seed V. **Why not break both sides of the seed trench by mellowing/compacting the soil over the seed,** rather than spading or chunking one or both side walls like most straight spiked wheels do, **thus giving you better seed to soil contact by rototilling both sides in of the row with the Zippers and Mohawks.**

**3:** Many of the straight finger closing wheels have to drag a chain behind the closing wheels to smooth up or level out the row and crumble clods left behind by the spading or chunking wheels. **Drag chains are not needed behind the Zippers or Mohawks because they leave the seed V area compacted and smooth.**

**4:** Many of the plastic made spiked wheels wear out within a couple of years running. **The Zippers and Mohawks will wear out several planters before they need to be replaced.**

**5:** Many of the spiked wheels on the market wrap or plug in cover crops. **The Zippers and Mohawks are less likely to plug or wrap in heavy cover crops and we have a solution if they start to plug.**

# CLOSING WHEELS WEIGHT



**MOHAWK™ PLASTIC**  
5.9#



**ZIPPER™ PLASTIC**  
5.9#



**4" CHICKEN TRACKER™**  
10.6#



**COPPER FURROW & YETTER™**  
2.8#



**MOHAWK CAST**  
8.05#



**ZIPPER CAST**  
7.25#



**6" CHICKEN TRACKER™**  
11.5#



**GREAT™**  
11.5#



**MOHAWK MAX**  
12.6#



**ZIPPER MAX**  
11.8#



**SPYDER™ CAST**  
11.6#



**SI DISTR FINGER™**  
16.5#

# CHART



**HEAD AG  
CRUISER  
TWISTER**  
5#



**COPPERHEAD AG  
CRUISER EXTREME**  
21#



**DAWN CURVETINE™**  
12.25#



**CAST IRON WHEEL**  
23#



**PLAINS**  
3#



**MARTIN 13"**  
10.7#



**PRO-STITCH**  
3.85#



**SCHLAGEL  
POSI-COSE**  
4.18#



**CONTRIBUTING  
R-TILL**  
1#



**EXAPTA  
THOMPSON™**  
7.4#



**YETTER SPIKE**  
16.28#



**RUBBER TIRE**  
3.15# - 3.8#

# PUMP SYSTEMS

## FOR USE WITH

- Complete planter & drill fertilizer application systems for all OEMs
- In-furrow starter, fungicide, & insecticides  
*Rebounders, optional fittings, stainless steel tubes*
- Side placement for high-volume nitrogen  
*G2/G4 fertilizer disc, fertilizer tubes for Case IH*

## FEATURES—BENEFITS

- Hassle free assembly  
*Pre-built tower so you can bolt on and go*
- Easy adjust controller
- Made in the USA

## STANDARD KITS INCLUDE

- Pump(s) & filters
- Manifold & distribution center
- Fertilizer placement options
- Controller & wiring harnesses
- Automatic shut-off



**GX2™ double pump distribution center**



**GX1™ single pump distribution center**



**TeeJet diaphragm check valve**



**PVC piping manifold**



**Visual Wilger manifold**



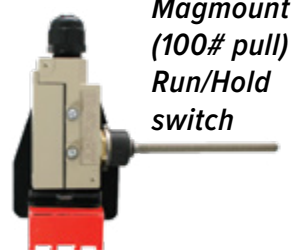
The pump systems are really simple—worked just like they said and were easy to install. - **C.P., MS**



**ManX Controller**



**5.3 GPM REMCO pump**



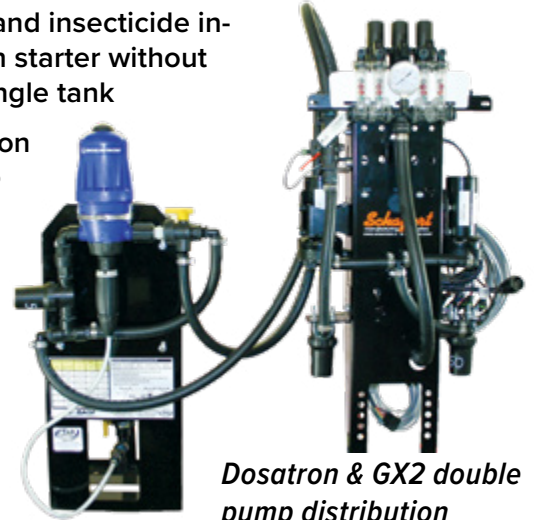
**Magmount (100# pull) Run/Hold switch**



**View your pressure with our Remote Gauge mounting kit closer to the cab**

## DOSATRON® DIRECT INJECTION KIT

- Apply fungicide and insecticide in-furrow along with starter without premixing in a single tank
- The direct injection kit is designed to be a simple cost effective way to apply fungicide and insecticide in-furrow with the seed



**Dosatron & GX2 double pump distribution center with GPS**

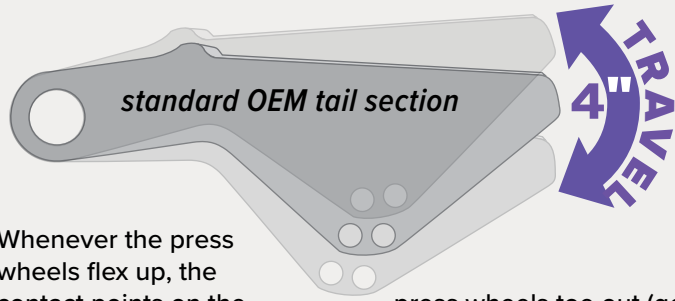


**GX2 fertilizer application system on a Landoll drill**

*You imagine it—we build it*

# 4 LINK CLOSER™

The OEM tail section found on planters built today has a limited amount of up and down travel when planting, roughly 4" arced throughout full vertical movement.



Whenever the press wheels flex up, the contact points on the press wheels toe out (get wider), and when the press wheels go down past center, they toe in (get narrower) too close to the seed furrow. This causes the seed V to not close properly.

Also, when you max out the wheels on the top side, it can raise the planter unit out of the ground, resulting in uneven seed depth. When planting up and over terraces or through ditches, seeds get planted on top of the ground, leaving blanked out areas in the field.

The length of the OEM tail section is 1/3 the length of the overall row unit. When increasing the down pressure by one notch on the closing system, you have to increase the front parallel linkage down pressure by more than 30% to keep the planter at the same depth.

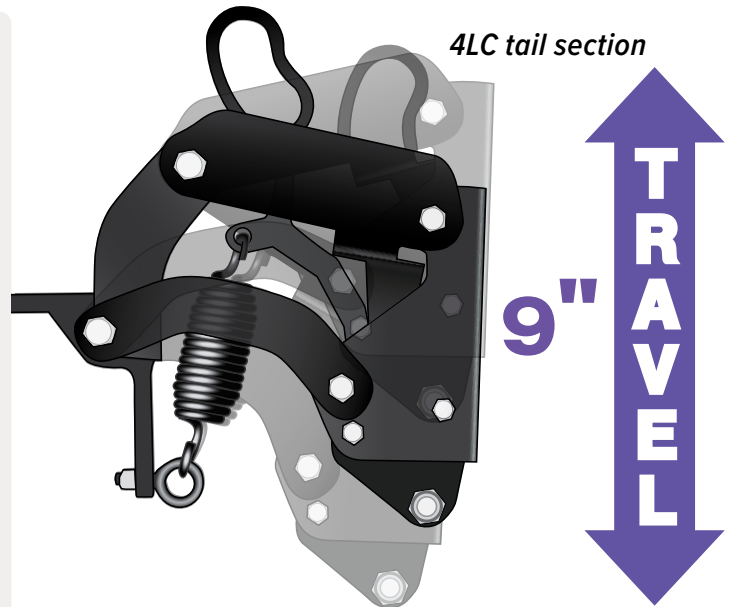
With this lever actioned tail section controlled only by one parallel linkage, one would need to run more down pressure up front to keep the planter in the ground.

By replacing the OEM tail section with a 4 Link Closer, the closing system is no longer a lever, but moves parallel with the ground instead of in an arc. This change enables one to use far less down pressure to close, causing little up draft on the overall row unit.

The 4 Link Closer busts up compaction, resulting in the best seed to soil contact equaling the best net effective plant stands.



*White 4LC with G2 fertilizer disc*



## FEATURES—BENEFITS

- Works with the G2 fertilizer disc, G3 walking beam, G4 fertilizer system, G5 2x2x2, Y-Cam and Half-Cam closing systems, and V closing wheels
- Keeps press wheels parallel to the seed trench at all times
- Allows you to run less down pressure and enables faster planting speeds without sacrificing depth control
- Ensures excellent seed to soil contact in any condition
- Better closure of the seed furrow in tough soils
- Walking action of closing wheels eliminates air pockets
- Allows 9" up & down travel—standard OEM closers have 4" total travel
- Eliminates planter bounce in the field
- Fits most double disc opener planters
- No more blank planted rows



*John Deere 4LC with Y-Cam closing system*

# 4 LINK CLOSER



Customer Tim B. of Illinois sent these photos of his Kinze planter using the 4 Link closing system on one row in comparison with the factory set-up on the rest of the rows.

Tim attributed the improvements made to not having to run as heavy down pressure on this row, which meant there was far less sinking and compacting of the soil with this row, leading to better emergence.



**ee** The 4 Link Closer has allowed us to back off on seeding populations to get our desired plants per acre, saving us money. It makes my stands even throughout the whole field (ear height, root structure, stability) which makes dry down and harvesting much easier. Unlike OEM's, the 4 Link Closer makes seeding possible through wash outs, keeping them from getting worse as time goes on. - **T.B., IL**



**Beans planted without trash whippers into 260BPA corn residue**



## P.F.R. PROVEN

For their 2022 test plot studies, Beck's PFR team addressed the following question:

**"WHY WOULD I NEED A CLOSING WHEEL SYSTEM?"**

Closing wheels need to maintain consistent pitch and ground contact to successfully close the furrow.

Standard closing wheel tails have limited travel, so when they move up, the pitch of the closing wheels gets wider. Likewise, when they move down, they can struggle to close as they were designed. The parallel arms with the Schaffert 4 Link Closer™ allow for greater travel to maintain a consistent pitch and, thus, more consistent closing of the seed trench."

### How many acres will it take to pay off my 4LC G Series?

	12-ROW PLANTER	16-ROW PLANTER	24-ROW PLANTER
\$4.50 BU/A CORN	496 acres	661 acres	992 acres
\$5.50 BU/A CORN	406 acres	541 acres	812 acres
\$6.50 BU/A CORN	343 acres	458 acres	687 acres

Data provided by 2022 Beck's Practical Farm Research, p. 25-27

The above chart depicts their findings on the 'Schaffert 4 Link Closer™ with Walking Axle'. They further added:



"Most of our plots are located on uniform, flat ground. We would expect the benefits of these systems to be more pronounced in fields that have more rolling topography."

Two parallel linkages are better than one!

4LC video →



Case IH  
800-1200



John Deere  
7200-1700

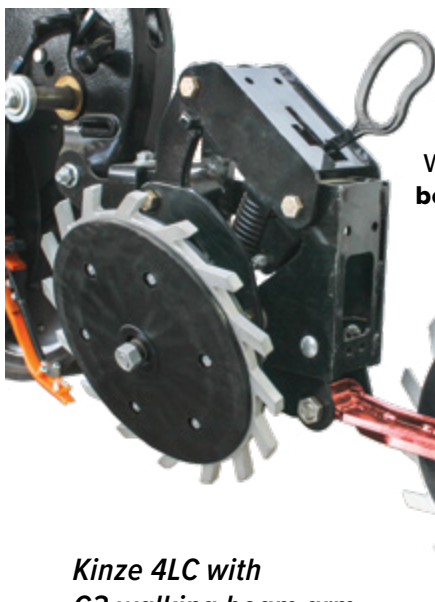


Take the bounce out of your planter units by adding the 4LC



## 7 DIFFERENT GROUND ATTACHMENTS

The 4LC offers five ground attachments to choose from. Closing wheels can be attached directly to the 4LC V closing bracket, or they can be staggered one after the other on the G2, G3, G4, or G5 walking beam axle.



Kinze 4LC with  
G3 walking beam arm

The **G2** is used for side fertilizer placement, or use the **G3** without fertilizer.

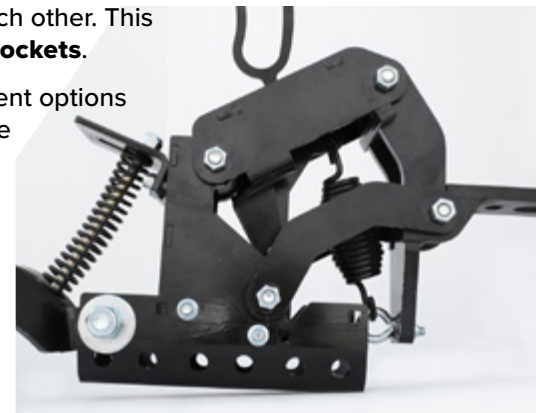
The **G4** has a removable disc mounting plate so therefore farmers can use the **G4** both with and without fertilizer. The **NEW G5** is made specifically for dual side placement of liquid fertilizer, 2x2x2.

With the G2/G3/G4 walking beam, the wheels are spaced apart, **closing the seed furrow better** than if the wheels were directly across from each other. This **walking beam also helps eliminate air pockets.**

The sixth and seventh attachment options are the Y-CAM Closer and the **NEW HALF-CAM System.**



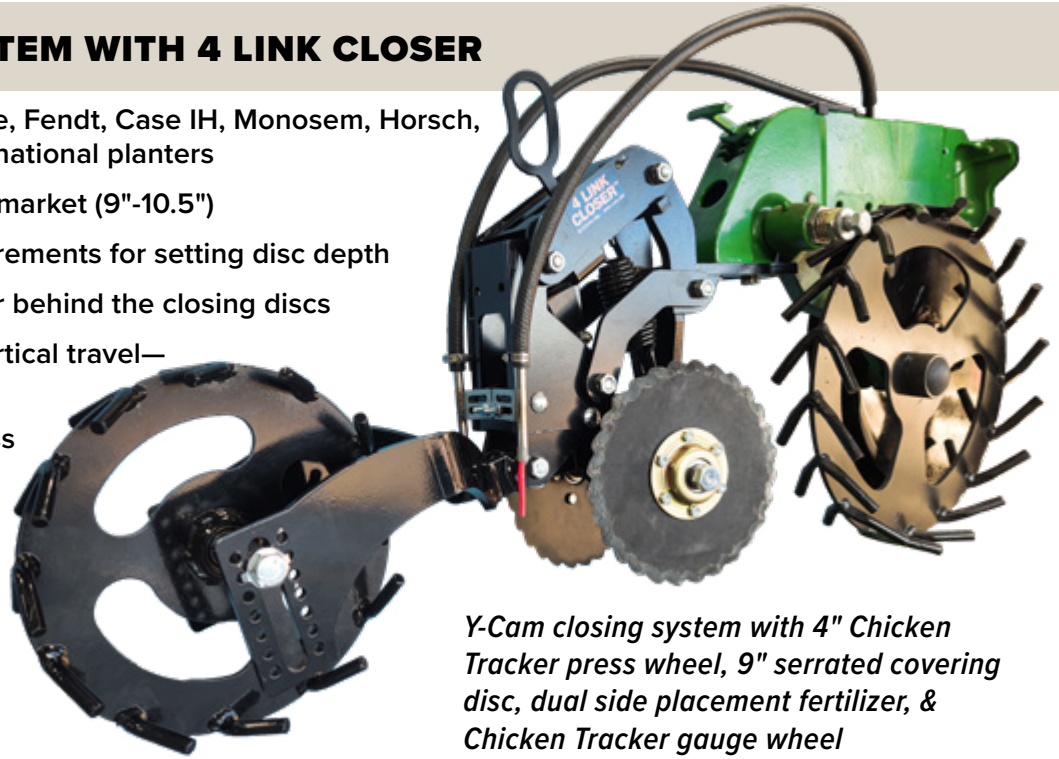
**NEW V3** closing bracket for 4LC with Half-Cam



# Y-CAM™ CLOSING SYSTEM

## Y-CAM CLOSING SYSTEM WITH 4 LINK CLOSER

- Fits John Deere, Kinze, White, Fendt, Case IH, Monosem, Horsch, Great Plains, & Harvest International planters
- Largest closing discs on the market (9"-10.5")
- 5" total adjustment in ½" increments for setting disc depth
- Optional 2x2x2 dual fertilizer behind the closing discs
- Y-Cam 4 Link allows 9" of vertical travel—standard OEMs only allow 4"
- Y-Cam 4 Link lets you run less down pressure with more travel
- Automated 4 Link Force available
- Walking beam design



*Y-Cam closing system with 4" Chicken Tracker press wheel, 9" serrated covering disc, dual side placement fertilizer, & Chicken Tracker gauge wheel*

### Y-CAM COVERING DISCS

#### 3 DISC DESIGNS

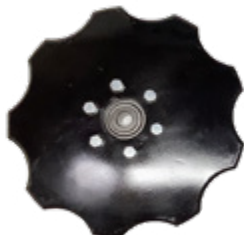
*All work very well*



**9" SMOOTH**



**9" SERRATED STP**



**10.5" NOTCHED**

New **Depth Control Hub** works on any of our 9" discs blades for planters.

This depth band keeps the Y-Cam system on the 4 Link Closer from nose diving in ditches or up and over terraces, giving it stability and depth control of the covering discs. Plus you can dual apply fertilizer behind the planter and in front of the press wheel.



**4 Link Closer**

**Y-Cam**

**2x2x2 fertilizer**

**10.5" notched disc**

**Chicken Tracker**



New **Easy Adjust Y-Cam** lets you move the closing Chicken Tracker up or down without having to remove the wheel.



**Level Bubble** bolts to the top adjustment holes and aids in ensuring the Chicken Tracker and closing discs are running level at the pivot point of the Y-Cam bracket.



**Optional 2x2x2** single or dual side placement fertilizer kits inject liquid behind the cover discs, and include **high pressure injector orifice** plus rubber boot.

**Y-CAM CLOSING SYSTEM WITH CHICKEN TRACKER WHEEL**

The Chicken Tracker press wheel is available in **4"** and **6" widths** for the Y-Cam system.

Standard 6" rubber closing wheels can be used in lieu of the Chicken Tracker.



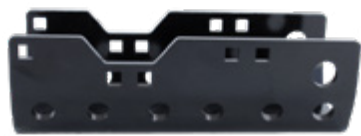
*4" Chicken Tracker      6" Chicken Tracker*

- Chicken Tracker closing wheel mellows plus packs soil around the seed, eliminating air pockets and clods.
- **Chicken Trackers for organic farmers help eliminate having to tine weed or rotary hoe** over the row before the crop emerges, because of the crumbling of soil—not smearing the soil like a rubber tire does over the row. Even Chicken Tracker gauge wheels give you 4" of mellow soil on each side of the row.
- Easily move Chicken Tracker wheel up or down on the Y-Cam with the **quick adjust washers**.
- There are 7 adjustment holes on the Y-Cam. The New **Y-Cam Level Bubble** will help put the Chicken Tracker wheel in the correct hole of adjustment.
- **Standard Settings:** Typically, when using the 10.5" notched disc, the Chicken Tracker will be set to the middle hole. With the 9" serrated STP disc, the Chicken Tracker gets moved up to the 2<sup>nd</sup> hole.
- When running level, the closing discs will be about 1½" deep alongside the furrow, moving soil into the furrow.



**GIVE YOUR SOIL A WORKOUT AND NOT YOUR PLANTER!**

# HALF-CAM™ CLOSING SYSTEM



4LC V3 bracket



4" Chicken Tracker



## NEW HALF-CAM™ CLOSING SYSTEM

### THE 4 LINK CLOSER NEW V3 CLOSING WHEEL BRACKET

We've developed a specialized bracket for our 4 Link Closing Systems that repositions the closing wheels closer to the double disc openers. This adjustment places the closing wheels in the same position as they would be on the OEM closing wheel system. The V3 gives our closing system the closest-coupled closing wheels in the aftermarket.

### THE NEW HALF-CAM BRACKET

By moving the closing wheels forward, we can position the Half-Cam System directly behind them on the 4LC V3 bracket. The 4 Link Closer's 2nd parallel linkage allows the closing system to run independent of the openers. This with the Half-Cam's spring absorbs the planter's shock, taking the bounce out of the row units—which allows the Chicken Tracker closing wheel to run smoothly through the field.

### THE CHICKEN TRACKER

The Half-Cam offers the unique advantage of utilizing our cast Mohawk or Zipper closing wheels PLUS our Chicken Tracker press wheel. The Chicken Tracker works to seal the deal over the furrow, mellowing soil while also compacting the soil around the seed for optimal seed to soil contact.

### THE RESULTS

Farmers who have tested the Half-Cam System return very pleased, noting how well it mellowed the soil behind the closing wheels on the planter. In field tests, one can see just how much the 4 Link Closer and Half-Cam's vertical movement allow the Chicken Tracker to effortlessly follow along, fluidly and precisely covering the row.



cast closing wheels attach at the same distance back as OEM

**WITH 4 LINK CLOSER, MOHAWK/ZIPPER WHEELS, & CHICKEN TRACKER WHEEL**

- Fits John Deere, Kinze, White, Fendt, Case IH, Monosem, Horsch, Great Plains, & Harvest International Planters
- **Runs smooth**—takes bounce out of row units
- **4 Link Closer** has two parallel linkage systems, allowing the closing system to run independent of the double disc openers
- **All cast or MAX closing wheels** attach at the same distance back as OEM
- **Chicken Tracker wheel** mellows the soil



↓ watch full video ↓



*Half-Cams on a John Deere planter in Iowa*

# G SERIES



**NEW G4**  
with fertilizer and  
Mohawk Max wheels  
on the 4 Link Closer

Our G Series is a closing system which can be used with our without 2x2 side liquid fertilizer placement.

The G Series walking beam axle arm spaces out the closing wheels from a pivot point, allowing the wheels and fertilizer disc to “walk” or more easily travel over obstacles in the field.

**G SERIES:**

- G2™** fertilizer system
- G3™** walking beam axle only
- G4™** system with removable fertilizer kit
- G5™** system for dual 2x2x2 fertilizer placement



The G Series will mount to the 4 Link Closer and to OEM tail sections on John Deere, Case IH, Kinze, White, Fendt, Monosem, Horsch, Great Plains, Harvest International, and Yetter planters.

## NEW G4™ SYSTEM



**G4 fertilizer** disc mounting plate and serrated fertilizer disc for using the G4 with 2x2 liquid fertilizer placement

**G4 weight** can be mounted in lieu of the disc mounting plate for using the G4 without fertilizer



**G4 with fertilizer**



The G4 fertilizer kit includes a **high pressure injector orifice** and **rubber boot**.

Turn the page for more information.



Place fertilizer in-furrow with the Rebounder and Y-Not splitter and 2x2 with the G4

## G S E R I E S



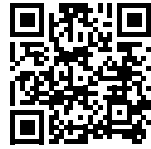
**G2**



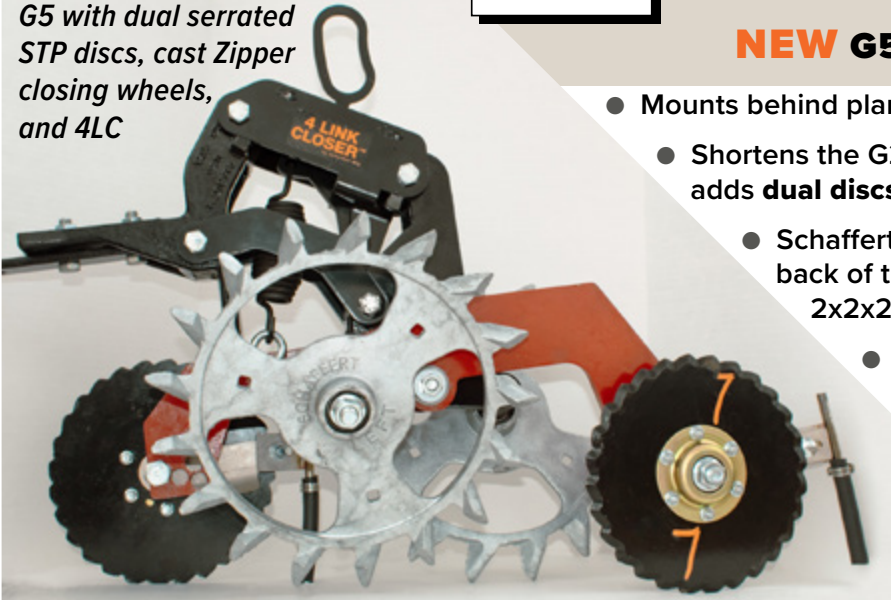
**G3**



**G4**



G5 with dual serrated STP discs, cast Zipper closing wheels, and 4LC



**NEW G5 DUAL FERTILIZER SYSTEM:**

- Mounts behind planters to apply **2x2x2 fertilizer**
- Shortens the G2 walking beam under the 4 Link Closer and adds **dual discs** behind the planter on both sides of the row
- Schaffert G5 is the **closest-coupled system** to the back of the planter compared to any competitor in the 2x2x2 market
- **Less down pressure** required. In contrast, the further back planter attachments extend, the more down pressure needed
- **Lighter weight** and **easier lifting** make the G5 better suited for larger planters than other systems on the market
- G5 provides a **narrower transport width**, extending only 8" behind OEM units

- **Places fertilizer directly** into moist soil for optimal uptake
- Features patented 5/16" thread orifices positioned at the injection point behind the discs
- Staggered fertilizer discs and closing wheels **prevent plugging** in rocky soils or heavy residue
- With the 4 Link Closer, G5 allows **7"-8" of vertical parallel travel**, compared to just 4" on OEM units

G5 with dual serrated STP discs, cast Zipper closing wheels, and 4 Link Closer



**COST ANALYSIS OF THE G5 DUAL FERTILIZER SYSTEM**

Based on 600 cropped acres using a 12-row, 30" planter, the G5 System can potentially pay for itself in as little as one year. Saving just **\$25 per acre on fertilizer** across 600 acres covers the system's cost in the first season—without compromising yield.

These **savings come from banding fertilizer directly beside the row rather than broadcasting** it across the entire field. By **placing nutrients closer to the seed**, they become **more readily available** to growing plants, reducing total fertilizer use while maintaining yields.

When paired with the 4 Link Closing System, the Dual G5 offers a practical, cost-effective solution for today's producers. With today's lower commodity prices, it's an **effective way to reduce input costs**, sustain yields, and improve return on investment.

The G5 attachment is a smart, long-term upgrade that enhances your existing planter and delivers measurable ROI through **improved efficiency** and **better crop performance**.



G5

**NEW**

**G5 DUAL LIQUID 2X2X2**

# G SERIES

## G2 & G4 FERTILIZER SYSTEMS

Schaffert Mfg. Co. offers a revolutionary method of applying larger quantities of starter or nitrogen fertilizers, 2"-4" to the side of the row and into moist soil, with the G2 and G4 fertilizer disc behind the planter.

The 8" or 9" single disc opener is mounted on the planter's press wheel bracket. The G2/G4 liquid disc is designed on a walking beam axle with three points of contact in the soil at all times.

This patented walking beam design gives stability and balanced pressure to both press wheels in closing the seed V, better and more even depth of fertilizer in uneven terrains, and features a compact easy-to-mount design.

**This compact design eliminates having to find room in front or behind the planter for much larger, heavier, and more expensive fertilizer solutions.**

**In a 3-year fertilizer application study (2011-2013) by Ken Ferrie of *Farm Journal Magazine* the G2 fertilizer disc topped their yield trials.**

Right and left hand row units available.

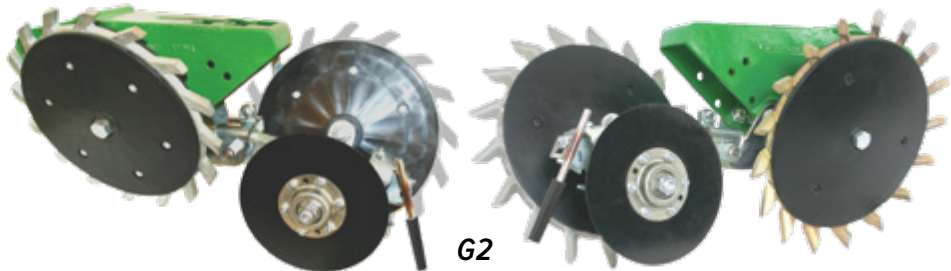


*G2 working with new fertilizer bracket*

*G4 with removable fertilizer kit and cast Mohawk wheels*



*The G Series works great with Mohawk & Zipper closing wheels*



### FEATURES—DESIGN—BENEFITS

- Unique one piece design that equalizes down pressure on press wheels and liquid disc
- A heavy duty triple sealed bearing in the disc
- Powder iron oil impregnated bushings in walking beam
- Stainless axle in center pivot walking beam = no corrosion
- Single disc design for better penetration
- Adds only 11 lbs per row
- Easy to install

### ELIMINATES COMMON PROBLEMS

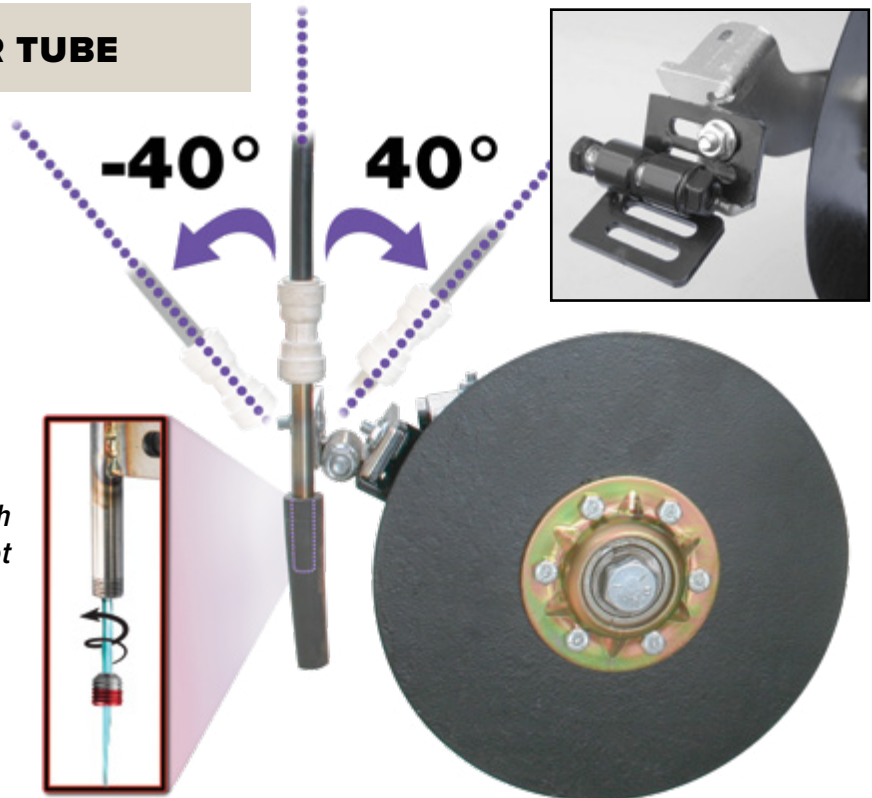
- New liquid disc is tucked in behind the gauge wheel to keep it from plugging in heavy residue
- No drilling of holes on newer style JD, Kinze, White, Monosem & Great Plains planters
- Won't disturb the seed—adjustable 2"-4" away
- No need for heavy duty down pressure springs

# LIQUID SIDE PLACEMENT

## ADJUSTABLE G2 FERTILIZER TUBE

- Disc adjustable 2"-4" from furrow
- Stainless steel high pressure tube injects fertilizer directly into the slice cut by the G2 fertilizer disc
- Fertilizer bracket pivots closer or further from disc blade
- Adjustable trash deflector
- Heavy duty rubber boot

*Pivotable G2 fertilizer bracket with injector orifice and rubber boot*



## INJECTOR ORIFICE

### SIZE & INSTALLATION

- Screws inside 3/8" stainless tube
- Easy to install with an Allen wrench
- Orifice OD is 5/16"

### FEATURES—DESIGN—BENEFITS

- Stainless steel compact design
- 13 color coated orifice sizes
- Injects high pressure, 2-40 GPA
- Universal models—fits many machines
- Allows tube to be closer to soil surface, eliminating trash buildup

Schaffert Mfg. now offers a pivotable fertilizer bracket on their G2 fertilizer disc. This new bracket replaces the curved fertilizer tube and can be **used on existing G2s**. The bracket pivots 40 degrees in and out from center so you can adjust and control where the fertilizer is injected, **closer or further away from the disc blade**. It can be used for both low and high pressure.

To run high pressure, simply screw in one of Schaffert Mfg.'s stainless steel **high pressure injector orifices** into the bottom of the threaded tube. This injector orifice also works on the **G4** and on our **stainless steel fertilizer tubes for Case IH**.

The orifice is **easy to install with an Allen wrench**. They are offered in **13 different color coded sizes** to put on from 2-40 GPA.

We've also added a **new heavy duty rubber boot** to the bottom of the fertilizer tube. This boot is specially made for our fertilizer tubes, designed to immediately **snap back into place** after hitting trash. It works better than the drag hose previously used. The rubber boot also helps **eliminate fertilizer on the row unit**.

*Serrated disc for cover crops*



## SERRATED DISC FOR HIGH RESIDUE

- The serrated fertilizer disc works well when planting into wet or dry heavy residue field conditions (such as soybean stubble and heavy corn residue)
- The notches in the blade help it “walk” through the residue, keeping the disc rolling in the field instead of plugging or stopping
- This specialized disc is a true mud hog. In many conditions, using the serrated or notched style blade will allow you to eliminate the residue scraper

# LIQUID SIDE PLACEMENT

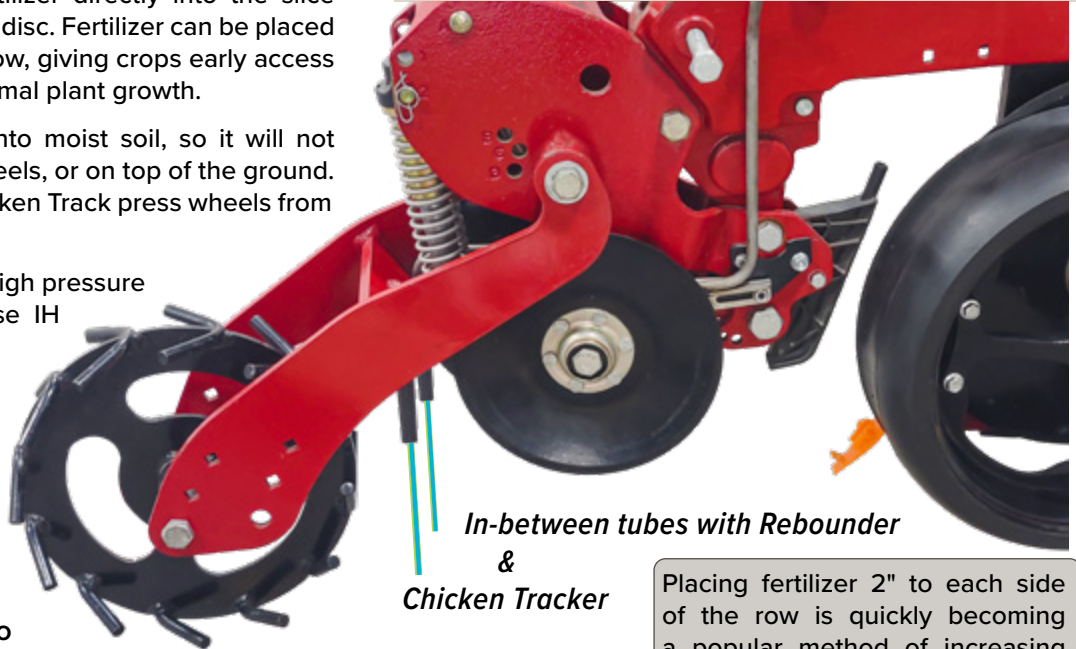
## IN-BETWEEN FERTILIZER TUBES

Our fertilizer tube mounts directly to Case IH planter units and moves independently of the covering disc bracket. Its compact design injects fertilizer directly into the slice opened by the IH leading cover disc. Fertilizer can be placed 2" to one or both sides of the row, giving crops early access to the nutrients needed for optimal plant growth.

The fertilizer is incorporated into moist soil, so it will not splash on the planter, press wheels, or on top of the ground. This keeps the standard or Chicken Track press wheels from building up with mud.

The tubes come with optional high pressure tips and are available for Case IH 800-2100 series planters.

### CASE IH 2100 SERIES



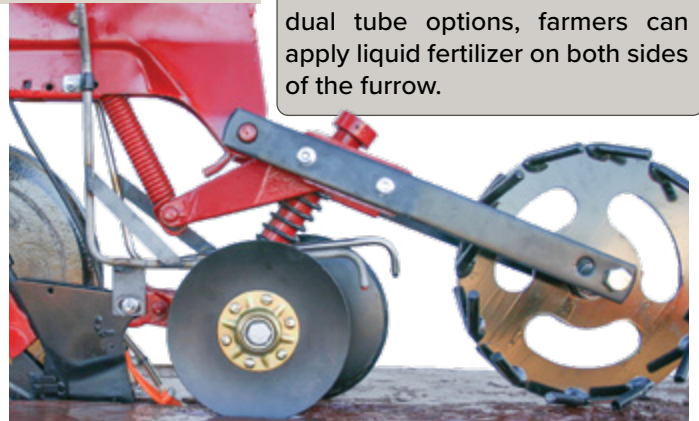
*In-between tubes with Rebounder  
&  
Chicken Tracker*

Placing fertilizer 2" to each side of the row is quickly becoming a popular method of increasing yields. Traditionally, side fertilizer placement has occurred on one side of the furrow. But with our dual tube options, farmers can apply liquid fertilizer on both sides of the furrow.

### SIDE PLACEMENT OF FERTILIZER

- Injects fertilizer on one or both sides of the row
- Incorporates fertilizer into moist soil
- Puts fertilizer in slice or opening made by cover disc
- Optional to add high pressure tips (see *Injector Orifice* on previous page)

### CASE IH 800-1200 SERIES



*Fertilizer injects directly into the  
slices cut open by the cover discs*

### HOW IT MOUNTS

- Formed compact tube bolted to unit
- Mounted directly to planter, NOT to cover discs
- Fertilizer hose attaches high up on planter
- Lefts and Rights available

### ELIMINATES COMMON PROBLEMS

- Eliminates fertilizer on planter, press wheels, and on top of ground
- Helps eliminate trash build-up



# TUBES FOR CASE IH

## OUT-THE-BACK FERTILIZER TUBES

### 2 OUT-THE-BACK OPTIONS FOR CASE IH 2100

We have two out-the-back fertilizer tube options for Case IH 2100 planters, bent or straight. Both sets of tubes are adjustable and can be run single side or dual.



**Straight tubes**  
place liquid  
approximately **4"**  
from the center  
of the furrow



**Bent tubes**  
place liquid  
approximately **3"**  
from the center  
of the furrow



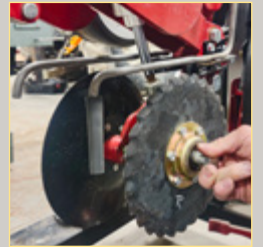
*Dual  
Out the  
Back fertilizer  
tubes and older style brackets with  
Chicken Tracker wheel & scraper*

### BENEFITS OF DUAL FERTILIZER PLACEMENT

- Double your rate of fertilizer while keeping it in two separate bands close to the furrow to propagate downward root movement
- Located behind the opener on the planter, keeping the gauge wheels clean for better depth control —no build-up from opener in front of the row unit
- Lower rate versus broadcasting for zone building
- Safer at higher rates for seedlings
- Great for micro-nutrient packages of fertilizer that cannot go in furrow

### BENEFITS OF SWITCHING FROM A CONCAVE DISC TO A STRAIGHT DISC

- Provides better seed furrow closure
- Easier to push into the soil than the concave disc
- 25# to 30# less down pressure needed to close the seed furrow
- Saves wear and tear on the closing disc brackets and bushings



*Bent (photo below) and  
straight (photo to the right)  
out-the-back fertilizer tubes  
with Chicken  
Tracker press  
wheel*

*multiple Hose Adapter  
Kit options available*



**High pressure injector orifice** screws into the bottom of the tube.

The **heavy duty rubber boot** is designed to immediately **snap back into place** after hitting trash. It also helps **eliminate fertilizer on the row unit.**

# WHEEL SCRAPERS



*Machined gauge arm with scraper for John Deere*

## BENEFITS

- Keeps the gauge wheel clean even in loose, muddy soil
- Keeps gauge wheel clean so seed depth does not change
- Affordable & economical

## FEATURES—DESIGN

- Welds or bolts on most planters
- Designed shape to fit contour of tire
- Flips out of the way when not needed
- Scrapers adjustable in and out, up and down to fit any tire
- Scrapers made of high molecular poly for wearability



*Gauge wheel scrapers keeping the gauge wheels clean*

*Muddy press wheels*

Our side placement fertilizer tubes for Case IH will also help eliminate mud build-up by placing liquid fertilizer directly into the ground, keeping it off your planter and wheels.



*Case IH 1200 gauge wheel scraper*



*Case IH press wheel scraper*



*Strip Cat*



*John Deere, Kinze & White gauge wheel scraper*

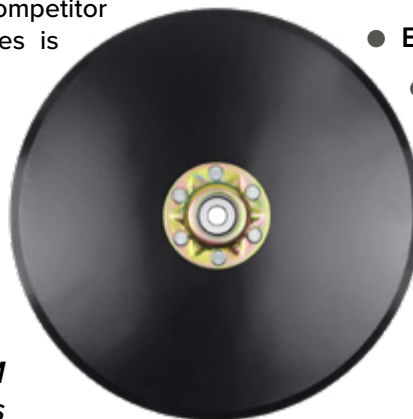
# B-TOEM™ BLADES

Better-Than OEM (B-TOEM) disc blades allow you to **seed into hard soils covered in heavy, tough residue**, while **maintaining flexibility to resist breakage** in rocky and high foliage conditions.

As these blades are used, their doubled rolled beveled edges wear sharper and hold their edge longer, **retaining 20% more diameter** on average than standard and competitor blades. The core of the B-TOEM blades is about **10% harder** than other blades.

B-TOEM blades provide **better blade to soil contact**, as they do not roll over or break in rocky soils. These **patented, heat treated blades** have a **heavy duty hub** and are made of materials superior to those found in standard disc blades, giving them an improved and longer life.

*Better-Than OEM heavy duty double disc openers*



## FEATURES—BENEFITS

- Rockwell hardness: B-TOEM 55-58 OEM 48-50
- Rivets: B-TOEM 5/16" OEM 1/4"
- Hub metal: B-TOEM 3/16" OEM 1/4"
- Bearing: B-TOEM 205 HD OEM 204
- 20%-40% longer wear life = Reduced cost per acre
- Domestic components —Assembled in the USA
- Maintains its sharp cutting edge, even in rocks

### Testing methods:

To test their durability, the B-TOEM blades were run across rocks at 8MPH with full down pressure.

# THANK YOU FOR YOUR BUSINESS



Here is a YouTube Video showing the 4 Link System with the Y-Cam Closing System with the STP serrated closing discs and the Chicken Tracker behind compacting soil over the seed, leaving it mellow to prevent crusting in wetter heavier soils. Watch how quiet the row units run as the 4 Link System takes the bounce out of the row unit. Its like putting new shocks on an automobile—it makes the ride smoother. The 4 Link System doubles the movement up and down compared to an OEM Closing System. Add the Y-Cam System for better seed V closure and seed to soil contact. - **PAUL SCHAFFERT, CEO**



scan code to watch Y-Cam video



I have never had any better service from any company than Schaffert Manufacturing. If you call with a question, you can usually talk to Paul, the owner. Or if you have any problems with any of their products, they are handled very quickly, and more than fairly. If every company in the agriculture sector built as good of products, and stood behind them like this company does, my job as a producer would be much easier and more profitable. - **D.S., NE**



I have Schaffert Mohawk closing wheels and was having trouble with a air pocket above the seed when planting a little wetter conditions, I thought it was the press wheels not doing a good job. I talked to Paul and watched a video on how to level the planter. I listened to the manufacturer on leveling the tongue when I needed to get the row unit level. I did exactly that and it was closing like a dream. - **J.K., NE**



Last winter you were kind enough to spend time explaining the operating principles and benefits of your 4 Link Closers and Rebounders. Having started no-tilling in 1972 (under variable and adverse soil conditions), I have a deep appreciation for products that perform under challenging circumstances. Thank you for your personal service and outstanding products! - **P.M., SC**



The tech support has been the best part. When you call with a question you can actually talk to the owner. If you're looking for versatility on your planter at a reasonable price, I recommend checking into Schaffert products. - **B.K., IN**



## 1976 NO-TILL FARMER OF THE YEAR



Paul Schaffert, CEO Schaffert Mfg., with Frank Lessiter

## 2014 NEBRASKA HALL OF AGRICULTURAL ACHIEVEMENT



Paul Schaffert with Hall member Bob Klein, UNL

# SHORT-LINE EQUIPMENT

Schaffert Mfg. is one of the largest cultivator dealers in North America, and our two large lots contain a variety of new and used farm implements and parts. We have an extensive assortment of Buffalo cultivators, Tye drills, and parts.

Cultivators are a great aid in organic and hemp production. Alongside Buffalo, we carry various models of B&H, Hiniker, Sukup, Orthman, and more.



*Buffalo  
Cultivators*



**PAUL SCHAFFERT** CEO Schaffert Mfg.



*Tye Drills*

In addition to Tye, we carry Landoll and other drills. Many of our drills have been modified to include SMC fertilizer systems and attachments.

Other short-line equipment we carry includes subsoilers, bale beds, bale movers, bale feeders, creep feeders, hay rakes, stalk choppers, box scrapers, forced ejection scrapers, guidance systems, Buffalo planters, v-cutters, paratills, rotary hoes, and flatbed trailers.



*EZ-Haul  
Hay Haulers*



*Blu-Jet Rippers*



*Besler Bale Beds*



*Henke Buffalo Scrapers*

## SCHAFFERT MANUFACTURING COMPANY, INC.

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