NEW APPROACH NEW OPPORTUNITY ...

360 YIELD CENTER

360YIELDCENTER.COM

ADDING FLEXIBILITY TO BOOST EFFICIENCY

Time makes us smarter. The more time that passes, the better we are at predicting the right amount of supplied nitrogen our corn crop needs. For the last four years, regardless of the weather, growers that make mid-season nitrogen applications benefit from increased yields, lower nitrogen costs . . . and often both.

The fact is, there's just too much weather risk to sink all of your nitrogen investment prior to emergence. And with better nitrate measurement and application tools, you have new ways to react to these weather events and match the rate to the crop's need.

The old rule of thumb is that we need to supply one pound of nitrogen for each bushel of corn in our yield goal. But by spoon feeding nitrogen, monitoring the amount of "free" nitrogen that comes from mineralization and adjusting rates to match the crop's yield potential, you can drive the nitrogen efficiency ratio down to 0.8 or even 0.7 pounds per bushel. And that can trim $30 per acre on your nitrogen investment.

Learn more about the 360 Yield Center products – for combines, planters and applicators – that help you boost nitrogen use efficiency.

GETTING MORE FROM THE EQUIPMENT YOU ALREADY OWN

Equipment is expensive. So every extra hour, extra acre and extra bushel we can earn from that equipment boosts the return on your investment.

We invent tools that make the equipment work harder, work longer and work more efficiently. So rather than invest hundreds of thousands in bigger or faster equipment, you can invest a few thousand dollars and get a one year return and more money in your pocket.

For example, if you use a self-propelled sprayer for pre and post herbicide, you can extend the use season with the addition of 360 Y-DROP® for fertilizer application and gain an additional 3,000 or more acres of utilization from your high-value asset. You can even add custom application and turn the sprayer into a revenue generator.

If you use a disk ripper for tillage, you are investing $15 to $20 an acre but only fracturing about 60% of the soil profile. Simply by changing ripper points, you can fracture the complete soil profile for a very small additional investment in fuel.

We pledge to our customers that any product sold by 360 Yield Center can demonstrate a one-year payback. That means we need to keep the product cost as low as possible and the agronomic returns high. On the following pages, you'll find more examples of the ways you can invest a little and gain a lot.

PERFECT NITROGEN PLACEMENT

360 BANDIT™ puts bands of liquid nitrogen in the sweet spot for early root interception and uptake. It streams nitrogen on both sides of the seed, three inches away from the seed and just one inch below the soil surface - perfect for reducing volatilization and for rapid movement down into the root zone.

GAIN EFFICIENCY WITH BANDED NITROGEN

Putting nitrogen where and when emerging corn plants need it is the key to maximum efficiency. UAN is locked under the soil to eliminate volatilization. Moisture moves nitrogen bands into the root zone and dilutes the solution to prevent root burn or injury.

PLANTING WITH NO IMPACT ON DEPTH OR CLOSING

360 BANDIT mounts to the row unit, in front of the closing wheels. With a spring-loaded coulter and shallow placement, 360 BANDIT doesn't rob downforce from the row unit. Plus, unlike systems mounted behind the closing wheels, there is no impact on closing the trench over the seed. And the compact design adds just inches to transport width on forward fold planters. The compact design also ensures that the coulters and closing system stay on track in curves.

The optional drag chain seals nitrogen and helps cover the seed trench.

Adding nitrogen application to the planter eliminates separate, expensive application trips, and it puts nitrogen in the right place at the right time - during emergence and early plant growth.

We've taken what we've learned from the 360 Y-DROP application placement system and adapted it to a system for the planter. The delivery tubes follow the coulter slot. Tension on the tubes keeps them in position over rough terrain and around contours.

The shallow one-inch placement eliminates the need for excessive weight or downforce. That cuts the risk of interference with the closing system or the row unit's gauge wheel and downforce system.

TONY MILLER | NORTHEAST IOWA

"With spring-loaded disk blades, 360 BANDIT kept good soil contact so the fertilizer was placed between two to three inches away from the seed and down about an inch to an inch and a half, perfect for where we were wanting to put that nitrogen for our program."

REDUCE THE RISKS OF AN OPEN SEED AND FERTILIZER TRENCH

The 360 DRAG CHAIN is an advancement over ordinary drag chains in two ways: A simpler mounting system. And a flexible extension arm that keeps chains from getting caught on spike-style closing wheels.

Drag chains pull fine soil particles over the seed trench and finish the job of the closing wheels. They offer low-cost insurance that your seed trench is sealed tight. The 360 DRAG CHAIN does that plus it covers a wider swath - designed to work with 360 BANDIT to help seal the fertilizer slot created by the 360 BANDIT's fertilizer coulter.

ELIMINATE CHAINS CATCHING ON SPIKE WHEELS

For many, the primary complaint on drag chains is that they can catch on spike wheels. The bracket design on the 360 DRAG CHAIN eliminates this risk. The extension bracket moves the chain away from the spikes. The pivoting bracket provides flexibility for the chain to float. As the chain moves up, the bracket widens and the chain tightens - preventing the chain from catching on the spikes.

WORKS WITH MOST STYLES OF CLOSING WHEELS

360 DRAG CHAINs are designed for John Deere, Kinze, White and Harvest International planter row units and work with most closing wheels including:

- Rubber
- Cast
- Spike
- Schlagel
- Copperhead

Simple mounting system. 360 DRAG CHAINs mount using the closing-wheel hub bolt. This mounting location provides added width and minimizes the overall bracket length.

Wider coverage. 360 BANDIT places nitrogen in a band, three inches from the seed trench. The 360 DRAG CHAIN covers an eight-inch swath. That extra width ensures that the nitrogen slot is sealed and the seed trench is leveled.

Order the drag chain kit that fits your closing system. The base kit for cast and rubber closing wheels. The base and extension kit for spike- and paddle-style closing wheels.

BOOST STARTER PERFORMANCE WHILE CUTTING COSTS

Increase the ROI on your starter fertilizer investment with the 360 DASH application system. 360 DASH lets you apply the maximum rate for yield response while trimming your starter volume per acre - and cost per acre - by 50% to 75%. Rather than a continuous stream of liquid fertilizer, the 360 DASH valve meters a two- or three-inch "dash" of fertilizer and positions it for rapid interception by seedling roots.

The “dash” is triggered by a passing seed. When the existing seed sensor detects a seed, 360 DASH fires a high-speed actuator. The 360 DASH needle valve controls the rate and pulse. Achieve accurate pulses of fertilizer at four to 10 mph and 2.5 to 15 GPA.

The 360 DASH system adapts to existing power and data communication architecture on Precision Planting and John Deere ExactEmerge high speed planters. An innovative wireless WIFI communication system from each valve reduces harness cost and reliability issues.

360 DASH includes a flow meter and filter. This meter is accurate over a wide flow range (.025 - .65 GPM) and is compatible with common liquid products (water, 28%, 10-34-0, biologicals and more). Each flow meter communicates rate to the 360 DASH valve, then through the wireless communications hub, back to the 360 DASH control app in the cab.

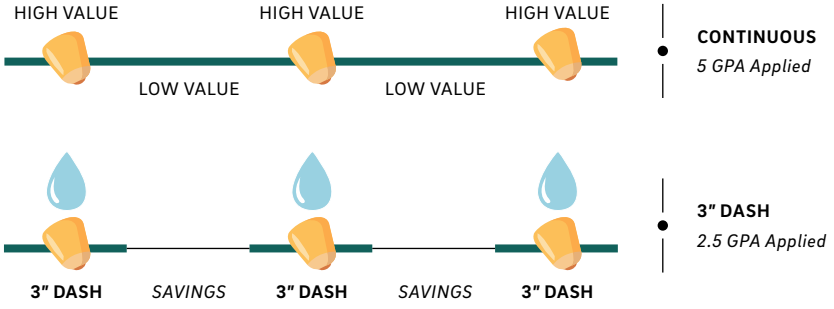
SAVINGS ADD UP QUICKLY

You have the ability to increase the seed-area concentration of starter without increasing the volume or rate per acre.

For example, if your planned rate was 5 GPA, you can give the seed an effective rate of 5 GPA but only apply 2.5 GPA -- cutting your starter cost in half.

Or, for the same total starter cost for a five GPA rate across the field, 360 DASH allows you to concentrate that five gallons into a two-inch dash around the seed for an effective seed rate of 15 GPA.

APPLICATION VOLUME PER ACRE



360 DASH applies liquid fertilizer in a concentrated dash over the seed. Eliminating the less efficient starter between seeds - gaining the full benefit of the starter but with a fraction of the cost.

The 360 DASH valve can be used with a variety of starter application tools including the 360 WAVE and most Keeton Seed Firmers.

360 DASH uses an AgXcel pump system with the “360 DASH Package” (sold separately) to ensure compatibility with the 360 DASH control app to ensure uniform pressures and filtering.

Set up and control settings are simplified via the 360 DASH App on your iPad. You set the length of the “dash” and its position - on, between or next to the seed.

ENHANCED SEED-TRENCH CLOSING WITH RAPID STARTER UPTAKE

Surrounding corn seeds with moist soil ensures uniform emergence. And uniform emergence leads to better yields. 360 WAVE gently surrounds seeds by peeling a band of moist soil from the lower half of the seed trench and rolling it over the seed. That reduces risk of slotting and air pockets in dry, wet and ideal seedbed conditions.

IDEAL STARTER PLACEMENT

360 WAVE is an angled blade that slices through the seed-trench sidewall and delivers starter to the side and below the seed. Years of field trials show that the best starter response comes from placing starter below the seed and 3/4" from the seed trench. This placement provides seed safety and quick access to the starter by the developing seed. 360 WAVE captures all of the benefits of placing starter below the seed and 3/4" from the seed trench with an easy to use, easy to manage attachment.

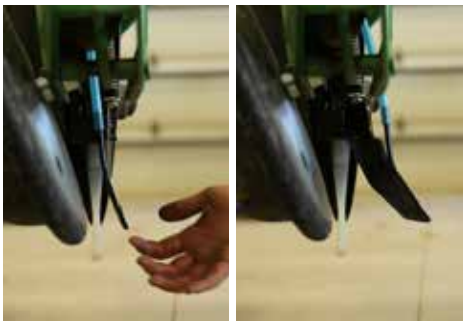
SWIVELS TO FOLLOW THE SEED TRENCH

The 360 WAVE mounts to the rear of the planter row-unit shank. This simplifies installation and ensures proper alignment with the double-disk openers. The 360 WAVE blade swivels to follow the seed trench on curves, but includes a stop to limit travel so the blade never places starter in the seed trench. The blade is spring loaded so that it can react to rocks and obstructions without becoming bent or misaligned.

CLOSING SYSTEM	FIRMING SYSTEM	YIELD	DIFFERENCE FROM CONTROL
Rubber Wheels	Keeton Seed Firmer	225.2	Control
Furrow Cruiser	Keeton Seed Firmer	227.1	+ 1.9
Cast Wheels	Keeton Seed Firmer	231.4	+ 6.2
2-Stage Controlled	Keeton Seed Firmer	232.1	+ 7.4
2-Stage Controlled	FurrowJet	236.7	+ 11.6
Rubber Wheels	**360 WAVE**	239.1	+ 14.0
Cast Wheels	**360 WAVE**	239.6	+ 14.5

In field tests comparing 360 WAVE to a variety of traditional closing wheels, 360 WAVE added as much as 14.5 bushels of corn per acre.

The 360 WAVE creates a "wave" of soil that rolls over the seed to simplify the job of the closing wheels.



The 360 WAVE blade pivots - self aligning in the trench. That means it follows the trench on curves. A stop prevents the blade from pivoting over the seed trench on tight left turns.

The spring-loaded 360 WAVE blade moves up and over obstacles to prevent damage, lower down force demands and maintain depth.

The liquid tube positions starter fertilizer 3/4" to the right of the seed trench and below the seed. The hardened knife edge increases wear life.

BOOST PLANTER PRODUCTIVITY BY 30%

Stopping the planter to refill liquid nitrogen kills productivity. Now there is a solution. 360 SPRINT™ lets you resupply nitrogen on-the-go and in the field. Like a jet refueling system, 360 SPRINT uses a modified UTV with an innovative docking system to lock onto your planter and transfer up to 300 gallons to the planter or tractor tanks.

By keeping the planter rolling, you can cover 30% more acres. Plus, you can keep the planter lighter with more frequent refills compared to "loading up" two or three times per field. That decreases planter compaction that robs you of yield.

LOCKED AND LOADED

Guide the UTV toward the coupler and engage the transfer lock. That ensures a tight seal. Power up the fast two-inch pump to transfer 300 gallons in under four minutes.

The spring loaded receiving cone and the articulate transfer boom allow the system to flex over uneven terrain and maintain a tight seal. Once you lock on the coupler, the flexible transfer hose gives you a cushion as you adjust to bumps and speed changes of the planter.

BEEFED UP UTV CARRIES THE LOAD

The system includes a tandem axle and frame structure that supports the tank and boosts the capacity of your standard UTV. These bolt-on modifications do not permanently alter the frame of your UTV and provide the support needed to carry an additional 3,300 pounds to the field.

With in-field, on-the-go fills, you eliminate the travel time of the planter to the tender tank and the fill time.

Loading the planter/tractor with a full load of liquid can amplify center compaction and pinch-row yield loss. Tests show that center compaction routinely lowers yields by 10 to 15%. With "just-in-time" liquid delivery, you minimize planter/tractor weight while keeping productivity high.

Hit the switch to automatically fire up the Honda engine and pump system. You are in control with an array of switches to engage coupler, engine and pump - all from the driver's seat.

MARK MILLER | CENTRAL ILLINOIS

"We like to think we are efficient and the spring of 2019 proved whether we were or not. 360 SPRINT allowed us to be as efficient as possible because we didn't have to stop and take the 10-15 minutes to refill every 20ish acres or so."

CAPACITY AND BALANCE FOR IN-FIELD PRODUCTIVITY

360 TANKS deliver the things you need for an efficient on-planter nitrogen system: weight balance, capacity, visibility and accessibility.

These sleek 700-gallon capacity tanks follow the contour of your John Deere 8000R tractor - providing improved front and side visibility compared to other mid-mount and front-mount tanks. The unique shape and mount positions provide better fore-and-aft weight distribution to minimize pinch-row compaction. And, unlike most mid-mount tanks, 360 TANKS do not increase transport width.

MORE UNIFORM WEIGHT DISTRIBUTION

The high-capacity tanks keep the weight distribution more similar to the original tractor set up. That minimizes the front axle loading and compaction compared to front-mounted tanks.

RUGGED SUPPORT STRUCTURE

The support frame is a modular design for easier shipping and installation. The frame cradles the poly tanks providing a secure and solid platform.

Narrow transport width. And, you still have access to the tractor's side panels for servicing.

Improved visibility. The low-profile tank design improves front and side visibility from the cab compared to other saddle and front-mount tanks.

Systems are available for select models of John Deere 8000R and 8030 series tractors. Check with your dealer for exact model availability.

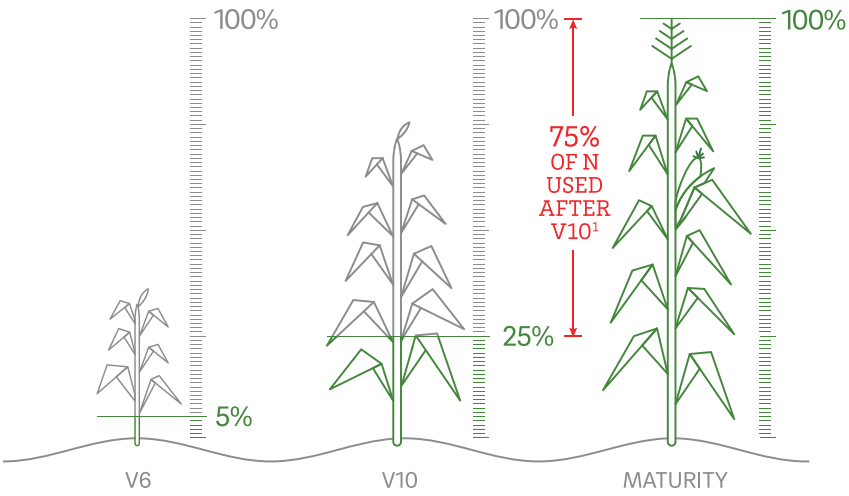
SCOTT BROCKELSBY | TAYLORVILLE, ILLINOIS

"Compared to my previous tanks, I notice less compaction from my front tires. Having the weight distributed over the tractor really stands out – they're a lot of relief off the tractor. Visibility is great. Our elliptical tanks made it hard to pull out of the field onto the road – not a problem with these 360 TANKS. They're nice and compact, not too wide. High five on these tanks."

MORE BUSHELS, LESS NITROGEN

In today's tight market, managing input costs is critical. Nitrogen is typically the second most expensive input. Getting the most efficiency out of this investment is critical. Lowering nitrogen use efficiency from 1.0 to 0.7 can have a huge impact on profitability.

360 Y-DROP® lets you wait for your final application so you can adjust rates to match the crop's needs. Wet. Dry. Ideal. You supply only what the plants need - protecting yield potential and reducing overall nitrogen costs.



TIMING AND PLACEMENT MATTER

The corn plant uses 75% of its N after V10. By re-stocking the soil's nitrogen supply later in the season, you are better able to supply only enough to allow the corn to hit your yield goal. Plus, unlike traditional coulter sidedress systems, 360 Y-DROP gives you a much wider application window – more than 30 days from V6 to VT.

Where N is applied is just as important as when it is applied. A corn plant acquires more than 60% of its N within seven inches from the stalk base. With 360 Y-DROP, you apply N right at the base of the plant. This ensures that nearly 80% of the root mass is within the application zone.

360 Y-DROP VS ONCE AND DONE LEADS TO $25/A PROFIT

FALL APPLICATION	SPLIT APPLICATION
180# Fall	100# Fall, 80# V14
233.9 BPA	**246.3 BPA**
$814 Gross Rev / A	$857 Gross Rev / A
$378 Fert & Fuel Costs	$390 Fert & Fuel Costs
$131 Equip and Labor Costs	$137 Equip and Labor Costs
$729 Total Expense / A	$747 Total Expense / A
$85 Return / A	**$110 Return / A**

Data provided by AgriVision Equipment Group, Red Oak, IA Plot, 2018
Visit www.360yieldresults.com for details.

Four-position adjustable arms allow for precision placement in 15-inch to 36-inch rows and variable rate nozzles are available for precise rate control.

Breakaway mounting brackets and a flexible riser allow for easier navigation across hills and uneven terrain.

Curved hoses follow the corn rows and won't flop or "dance" which ensures nitrogen is delivered to the soil, not the stalk or leaves.

DAVID HULA | CHARLES CITY, VIRGINIA

"We see with the use of the Y-DROPs we can be more efficient with the amount of nitrogen we apply, we can adjust our timing and we are able to improve our yield."

REPLACE COULTERS FOR BETTER UPTAKE

Coulter systems put nitrogen in the middle of the row - 15 inches from the base of the plant. That slows uptake and lowers efficiency. Studies show 25% more nitrates in the plant when nitrogen is applied at the base of the plant. That has led to an average yield increase of over six bushels compared to coulter systems.

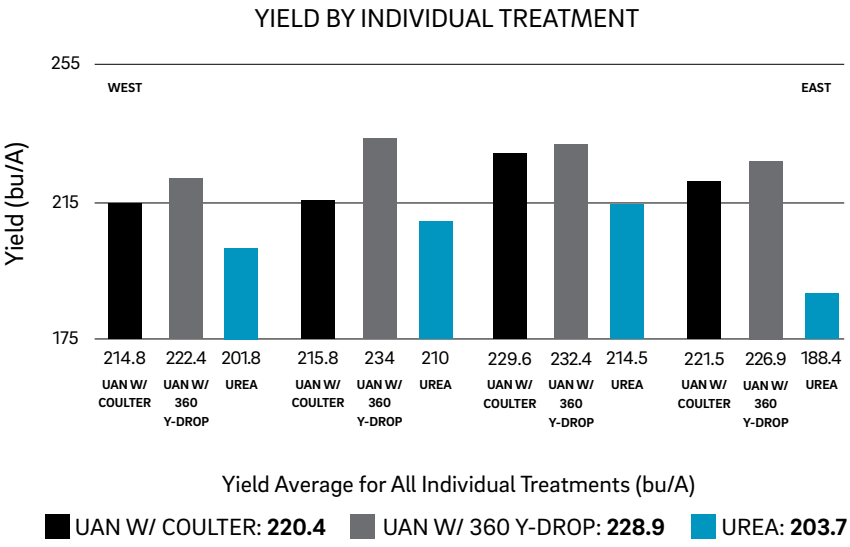
360 Y-DROP® Sidedress places nitrogen just inches from the stalk base. It extends the application window, plus there are no costly bearings and coulters to replace.

CONVERT YOUR COULTER BAR

Upgrade your coulter applicator system with 360 Y-DROP Sidedress and place nitrogen right above the root zone, where light rainfall can move nitrogen into the soil for rapid uptake. Plus, 360 Y-DROP Sidedress eliminates the height limit of coulters, giving you up to three more collars of application window to help lower application risk.

PLACEMENT PLAYS

LINN COUNTY, IOWA



Source: Iowa Soybean Association On Farm Network
Visit www.360yieldresults.com for details.

Adjustable riser length allows for mid-to late-season nitrogen application as late as V7 and four-position adjustable arms allow for precision nitrogen placement in 15-36" rows.

Breakaway risers provide protection on uneven terrain and variable rate nozzles are available for precise rate control.

Simple retrofit for your current coulter bar. Add even more value by installing 360 UNDERCOVER on your sidedress bar and use it for insecticide and fungicides in soybeans, cotton and more.

MICHAEL KNOLL | SOUTHEAST ARKANSAS

"With our knife rig we were concerned with trying to get the coulter close to the plant and cutting the roots. But with 360 Y-DROP Sidedress, we're not distressing the plant at all."

THE SIMPLE SOLUTION FOR STEERING IN TALL CROPS

360 GUIDE™ is an add-on that lets your existing guidance system maintain ideal middle-of-the-row position when A-B line accuracy isn't enough. The system uses feeler wands and sensors to measure the position of the machine in the row. It "teaches" your system the right position by correcting the GPS coordinates based on the exact position of the sprayer in the row.

360 GUIDE connects between the GPS globe and the OEM controller. It takes the GPS position provided by the globe, adjusts it and sends a correct position back to the steering controller. That means there is no new controller monitor required - run your guidance system just like you always do.

DEPENDABLE, MECHANICAL CORRECTION

Tactile wands measure the position of the applicator in the row. A rugged mounting frame attaches to the front of the applicator and provides a rigid platform for the sensor base. The system works in row widths from 20 to 30 inches.

SIMPLY CORRECTS GPS SIGNAL

360 GUIDE intercepts the applicator's GPS signal and corrects the lat/long position based on wand sensor data. If the applicator drifts from the A/B line - the correct positioning data keeps the applicator on track.

The riser support can be installed and removed in just minutes. A magnetic breakaway system protects the sensor base from ground impact.

360 GUIDE is available for John Deere R-Series and 30-Series applicators equipped with John Deere AutoTrac and for Hagie STS applicators equipped with Raven SmarTrax steering systems.

360 GUIDE ties into existing auto guidance controls in your OEM display. It uses an iPad-based app for calibration and set up, then turns operation and control over to the OEM guidance display.

GAIN CONTROL AND REDUCE FATIGUE

360 GLIDE™ provides reliable, mechanical, automatic positioning of your 360 Y-DROP system that ensures ideal hose position and nitrogen placement.

Your current boom height control system is ideal for bare ground but can struggle to measure above the canopy or through leaves to maintain height. The 360 solution takes control with a simple, reliable sensor rod that mounts to the 360 Y-DROP base and constantly adjusts the 360 Y-DROP base position relative to the ground.

SENSOR TAIL TAKES GUESSWORK OUT OF MEASUREMENT

This tail glides over field terrain reporting the position of the 360 Y-DROP base to your boom-control system and it flexes so it easily handles contours, turns and backing up.

TWO FORMS OF PROTECTION

The height-control system is designed to adjust for terrain changes. It doesn't react to rocks, washes and gullies. That's why we include a rugged breakaway system. When an obstruction is hit by the base, the smart system automatically holds its position, then quickly gets back to work controlling boom height.

360 GLIDE uses a mechanical sensor rod to automatically maintain the ideal position of the 360 Y-DROP base. That keeps the delivery hoses in the right angle to deliver nitrogen directly to the base of the corn plant.

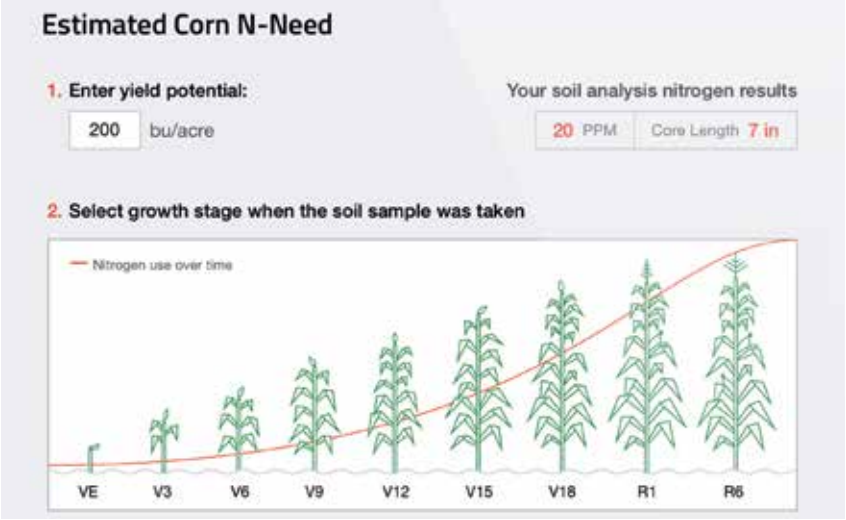
Available for John Deere applicators equipped with BoomTrac™ Pro, Hagie, Rogator and CaseIH applicators with Norac UC5 and UC7.

360 GLIDE plugs into your existing control system and you operate it just like you control your current system. No additional monitors. No elaborate configuration or settings.

MEASURE NITRATES TO MAXIMIZE NITROGEN EFFICIENCY

Knowing how much nitrate is available in the soil is a mystery. Eliminate the guesswork with 360 SOILSCAN® – a portable soil test system that gives you the ability to test N availability and soil pH with the accuracy of a traditional soil lab.

Testing only takes about five minutes, and you can do it right in the field. 360 SOILSCAN combines your yield goal, crop growth stage and soil organic matter levels to build a customized nitrogen application that fits your crop's N needs.



BUILT FOR THE FIELD

Understanding nitrogen availability in real time takes a system designed for the challenges of the field. With 360 SOILSCAN, you get a soil testing system that's durable, portable and accurate.

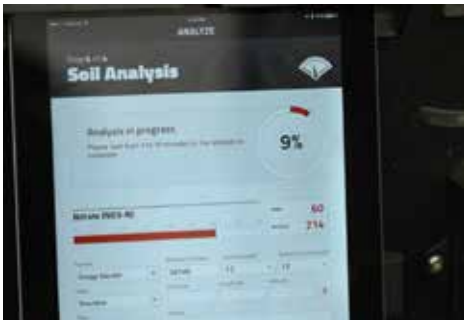
- Durable: Rugged case protects it from the elements.
- Portable: Easily transported and operated from the back of your truck or UTV.
- Functional: Uses your iPad® as the operating platform and upgrades without new hardware.

TIMELY AND ACCURATE RESULTS

Real-time measurements mean nothing without accuracy. That's why 360 Yield Center participated in the Agricultural Laboratory Proficiency (ALP) Program – a national proficiency testing program that monitors soil analysis for consistency, accuracy and reliability. Ninety-eight percent of 360 SOILSCAN machines passed the certification, giving them the same accuracy as traditional labs.

Easy to transport and operate from the back of your truck or UTV.

Rugged carrying case holds all components and protects it from the elements.



Consistent and repeatable results verified by the Agricultural Lab Proficiency Program.

LYNNE WARRINER | BLENHEIM, ONTARIO

"The combination of 360 SOILSCAN and 4R practice has led us to be more responsible stewards of our farm, creating environmental benefits for our community and economic benefits for ourselves."

TARGET PESTS AND DISEASES AT THE SOURCE

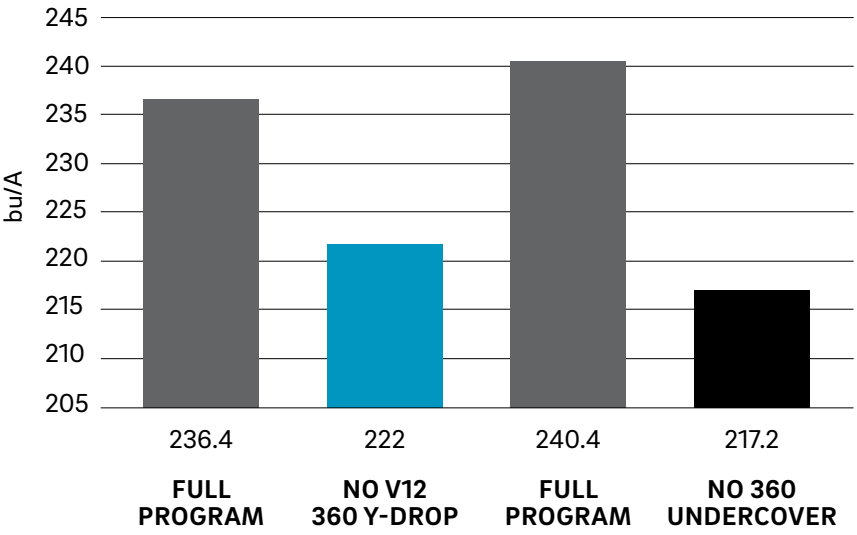
Many diseases and insects originate from the base of the plant and work their way into the canopy. Traditional application methods target the top of the plant and product often doesn't make it down to the target leaves.

360 UNDERCOVER® makes in-canopy application possible - in corn, seed corn, soybeans, wheat, cotton, sugar beets, sorghum and more. Compare coverage on the underside of the leaf - the photo shows 360 UNDERCOVER vs. aerial application.

DON'T LET DISEASE WIN

White mold, bacterial blights, spider mites, white flies, sugarcane aphids and soybean aphids can have a strong negative impact on plant health and yield potential, so it's important to closely monitor these diseases and pests throughout the development of your crop. Get more precise coverage to target these pests under the canopy with 360 UNDERCOVER.

360 UNDERCOVER BOOSTS YIELDS



Full Program: 105 lbs broadcast 32% applied, 65 lbs N applied via 360 Y-DROP, 70 lbs N applied via 360 Y-DROP, and fungicide applied via 360 UNDERCOVER

Visit www.360yieldresults.com for details.

Easy add-on to the 360 Y-DROP system – slides up and down the riser for in-canopy positioning depending on crop growth stage.

Up to four multi-directional spray nozzles on each unit for customized spray patterns and 150-degree horizontal spray application.

Special shell design protects nozzles and moves smoothly under crop canopy.

RANDY MERRILL | EDINBURG, TEXAS

"If you don't control the white fly, they'll suck all the nutrient out of the plant. You might get half a yield or a third of a yield. Now they have some chemicals that work, if you can get the product to the leaf, and that's what the UNDERCOVER does."

UNLOCK THE NUTRIENTS TRAPPED IN CORN RESIDUE

Fast residue breakdown boosts nutrient availability for next spring's crop. 360 CHAINROLL® creates "chains" of seven-inch stalks - ideal for rapid breakdown. Plus, they're the perfect length for row cleaners to remove residue from the seed trench.

Tests show a 2.5-bushel yield bump from better ear count and even germination compared to confetti-style chopping stalk rolls. It's a simple, profitable upgrade for Deere, CaseIH and Geringhoff corn heads.

PERFORATED STALKS FOR INCREASED MICROBIAL BREAKDOWN

The perforated stalks created by 360 CHAINROLL increase surface area to speed up microbial breakdown, freeing up more nitrogen for your crop. Plus, 360 CHAINROLL sizes residue so it is still manageable by the row cleaner, while staying put in the field. That's a big difference compared to "confetti" stalk rolls. Those small pieces aren't removed by row cleaners and too often end up in the seed trench.

360 CHAINROLL EMERGENCE COMPARISON

Comparison of plant count/ear count in 100' of row. Average of 1.7 fewer ears per acre in strips harvested the previous year with a chopping corn head compared to 360 CHAINROLL. The chopping corn head yielded 2.1 fewer bushels than the 360 CHAINROLL strips.

360 CHAINROLL stalk rolls directly replace old stalk rolls. Now available for CaseIH and Geringhoff heads.

360 CHAINROLL cuts stalks in seven-inch segments, ideal for row cleaners to remove residue from the seed trench reducing seedling blights, wicking and lower ear counts.

Combination of cutting flutes and piercing teeth create chain-like perforated residue.

CHAD HAFKEY | GRINNELL, IOWA

"360 CHAINROLL helps set the stage for quicker breakdown of the residue for next spring to avoid any potential problems with the nitrogen tie up."

DON'T LET YIELD FALL THROUGH THE CRACKS

360 YIELD SAVER® cuts header loss up to 85%. Poly blocks and intermeshing bristles reduce loss two ways: by cushioning the ear's impact - reducing butt shelling - and by capturing kernels.

The photo shows typical savings. Each lost kernel is marked with a flag. Yellow flags from 360 YIELD SAVER, red flags from standard gathering chains. Save more of what you grow.

360 YIELD SAVERs reduce header loss with a combination of cushion and capture. Bristle blocks provide a softer landing for ears which means less shelling. Kernels that do come off the cob, are captured by long-lasting bristles and delivered to the cross auger.

REDUCE HEADER LOSS BY 85%

Increase ROI with 360 YIELD SAVER, which, in side-by-side tests, was shown to save up to 85% of header loss. At this rate of savings, 360 YIELD SAVER can pay for itself within the first season and generate more than a 75% ROI after three years of use. Consider the return on investment for a typical corn operation with two-bushel savings. With an eight-row head covering 1,200 acres per year, a grower could expect gross yield savings of over $16,000, with a net profit of almost $7,000.

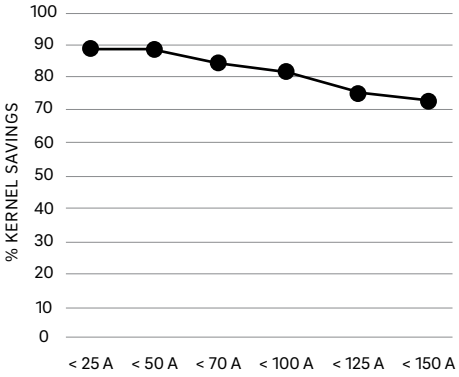
100% RETURN ON INVESTMENT

1. 1.9 BPA Average Kernel Savings
   2000 Acres / Year on 12 Row Head
2. 11,400 Bushels Saved
3. $42,180 Gross Return on Saved Bushels @ $3.70 / bu
4. $13,800 3-Year Investment in 12 Sets of Chains and Replacement Brush Blocks

$28,380 NET PROFIT AFTER THREE YEARS

OVER 2X RETURN ON INVESTMENT

Angled bristles fit together in a way that allows for more kernel capture.



A corn head is a harsh environment, but 360 YIELD SAVER is built to withstand the abuse. Even when brushes show some wear, they are still delivering stray kernels and nubbins to the cross auger. Average brush block life is over 150 acres per row. Wear life of the chain is very similar to traditional gathering chains.

360 YIELD SAVER consists of a specialized gathering chain with crop lugs and replaceable brush blocks. Blocks quickly snap and screw into position and are easily replaced at the end of the harvest season.

WES SEIFERT | AUBURN, ILLINOIS

"There is a definite return on your investment by using 360 YIELD SAVER. All you have to do is go out and count kernels and it's pretty obvious why you are using them."

FULL FRACTURE AND UNRESTRICTED ROOT ACCESS

Surprisingly, your ripper is likely leaving 40% of the subsoil undisturbed. Dig and you'll find berms of untouched soil that can impede root access to moisture and nutrients.

360 BULLET® is a berm buster. Wide wings are aerodynamically positioned toward the front of the point - creating fault lines that stretch horizontally and vertically. And it does this without significantly more horsepower or wear.

The picture shows traditional points on the left and 360 BULLET on the right.

360 BULLET POINTS TRADITIONAL POINTS

IMPROVED ACCESS TO SOIL NUTRIENTS

The precision wing angle and pitch of the 14" wide 360 BULLET lifts and fractures the soil across the total profile, eliminating these berms to increase the roots' access to nitrogen, phosphorus, potassium, sulfur and water.

The points move a lot more soil and break a lot more compaction layers. But they do this extra work without burning a significantly larger amount of fuel or requiring much more horsepower. The vast majority of customers use the same tractor and the same gear as they do with traditional ripper points.

SELECT THE STYLE THAT FITS YOUR FIELDS

We've developed 360 BULLETs crafted from different materials to give you the best combination of wear and durability for your conditions.

360 BULLET HW
For high wear. It is a great choice for regions with limited amounts of rock.

360 BULLET HD+
Similar high-wear characteristics and more forgiving in regions with a lot of rocks or stones.

360 BULLET HD
Fabricated with hardened steel and a cast nose cap. Available for:

- Case IH / DMI 530, 730, 9300 Rippers // 1.5" Shank
- Landoll 2410, 2430 Rippers // 1.25" Shank

360 BULLET ripper points are available for CaseIH, John Deere, Landoll, Kuhn Krause Dominator and DMI rippers. Check with your Dealer for specific models.

Aerodynamic design uses just incrementally more horsepower and fuel compared to traditional ripper points – no need to change tractors when you change to 360 BULLET.

Precision wing angle and pitch lifts and fractures across the soil profile without creating compaction under the wing.

In a comparison of his OEM ripper points to 360 BULLET, Eric Gentner found that come spring, there was a one to two day quicker dry down time where they ran 360 BULLET, which allowed them to get their sugar beats in the ground sooner.

JOSH KROEPLEIN | SHEBOYGAN FALLS, WISCONSIN

"With 360 BULLET, our ground is draining significantly better. We're getting out three or four days sooner. And we've seen a two- to three- ton increase in our silage."

BOOST ANHYDROUS AMMONIA ROW-TO-ROW ACCURACY

Anhydrous ammonia is an economical and practical way to establish a base application of nitrogen. Traditional cold-flow anhydrous application systems rely on tank pressure for distribution and injection. That makes these systems dependent on air temperatures — and is one reason for uneven distribution from knife to knife. It also limits the application window — too cold and there is no flow.

360 EQUI-FLOW™ keeps ammonia in its liquid state all the way to the knife, increasing row-to-row accuracy. And its pressurized system can operate efficiently and accurately at low temps.

HOW 360 EQUI-FLOW WORKS

1. Ammonia from the tank is delivered to the initial filter.
2. In the tower, the ammonia is separated into gas and liquid. The vapor is condensed back down into liquid and it all moves to the pump.
3. The hydraulically driven centrifugal pump pushes 100% liquid ammonia through the flow meter and control valve to the manifold.
4. The equal distribution manifold equalizes flow to each outlet.
5. Every row gets the same amount of ammonia in liquid state.

360 EQUI-FLOW SIDE-BY-SIDE TESTING

Tests with conventional systems and 360 EQUI-FLOW show the difference in row-to-row accuracy. At 120 pound application rate, the traditional system varied by over 20% and under 20% with a total error range of 45%. The 360 EQUI-FLOW application range was plus/minus 4%.

Centrifugal pump condenses NH3 into liquid for even application, regardless of rate and temperature.

Row-to-row variation shows up at the worst time for corn production. 360 EQUI-FLOW produces precision application for row-to-row accuracy.

Improved sealing at injection point, minimizing losses.

CALEB HAWBAKER | TUSCOLA, ILLINOIS

"360 EQUI-FLOW is the only way I would apply ammonia. I would not feel comfortable applying ammonia without 360 EQUI-FLOW. It's a total game changer in the ammonia market."

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