Thank you for

exapta® solutions, inc.

2023 Catalog & Idea Book

25 Celebrating YEARS

"Exapta has the best system out there. We just go plant, anything from sand ridges to heavy clay soils. You offer the best value for a planter and it's so simple."

John Waterman, Coleman, MI
Exapta customer since 2008
(FDN blades, Valions, Keetons + Mojos, Thompson wheels)
12 row JD 1760 planter

FREE SHIPPING

All orders over $2,500

Exapta—committed to your success

Welcome to our 25th Anniversary catalog! We couldn't have done it without you! Exapta was launched 25 years ago to serve the needs of you, the producer. Exapta relies on the necessity-driven innovation of many farmers & researchers to find solutions for high-performance planting and production.

To honor you, our valued customers, who have brought us this milestone, We're celebrating all year long with FREE shipping on any order over $2,500.00.* (*Contiguous US orders)

FREE SHIPPING

We strive not to sell you some device, but to provide useful information to help you get the most from your seeding equipment—more acres, better emergence, higher yield, and greater profit. Once armed with knowledge, we hope you'll see the value and wisdom of our products.

25 Celebrating YEARS

My brother, Matt Hagny, founded Exapta Solutions in 1998 after a decade of providing custom no-till and agronomy services in Kansas. His hands-on work experience provided both challenges and insights, which led him to seek solutions to achieve a better way of no-till seeding, and birthed the beginning of Exapta Solutions, which has grown in the past 25 years to become a full-fledged knowledge-based team of innovators.

Matt Hagny's legacy lives boldly at Exapta Solutions within our nine employees, who are committed and devoted to passing on Exapta's no-till expertise and services.

At Exapta Solutions, our purpose is, "Providing innovative solutions to improve overall sustainability for generations." We are committed to being on the leading edge of helping producers find solutions to their seeding challenges.

We strive to be your Number One source of top-shelf no-till seeding products and information. Thus, we'd like to share our 2023 Idea Book & Catalog which we hope you'll find filled with useful thoughts, and a resource you'll eagerly consult on your journey to still greater seeding success.

— Emilie Hagny Downs, CEO & President, Exapta Solutions, Inc.

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Tech tips for planters:

The planter toolbar and row units must run level (ignore the planter tongue's angle) with the terrain. Nose-down results in too little down-pressure available on the row units, and causes the closing brackets to be tipped incorrectly (lousy closing action), as well as the seed tube not being vertical enough. If in doubt, slightly nose-up is the lesser of the evils. (More on this in our DVD, p 31.)

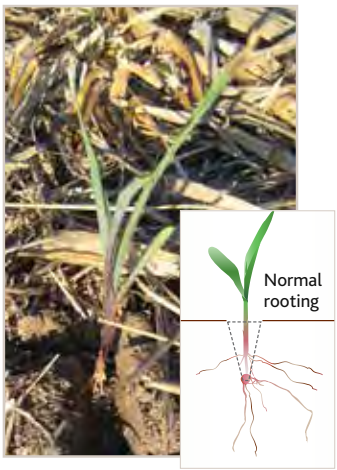
Step 1, Cut: Avoid disturbing the path of the opener. If your planter has coulters, run them really shallow—like 6" *above* the soil! ☺ Fertilizer openers should run approx. 4" to the side, and no deeper than the seed openers (preferably shallower).

Row cleaners shouldn't move soil, and should only move a portion of the residue.

Opener blade flex results in a furrow of variable shape and depth, often with the lower portion becoming a pinched unusable slit (zero blade flex would create a 5/16-inch-wide furrow bottom on JD/Kinze/White planters). Blade flex can be reduced by replacing the 3mm disks with 3.5mm blades (standard on most newer planters). Note that thicker disks cannot be shimmed as tightly together as the more flexible 3mm blades. Avoid 4mm blades—too blunt too quick. Heavy-duty bearings also reduce blade flex, but the seed-tube guard being up-to-spec is crucial. See p 6.

Step 2, Place: Sidewalls should remain intact until the seed is placed. Indented gauge tires (Reduced Inner Diameter) allow more lifting, which may adversely affect placement and firming. Use adequate down-pressure & frame weight (don't trust the monitor—dig). For more on auto downforce, see our newsletters: exapta.com/newsletters

Step 3, Firm: A separate firming device such as a Keeton (or Flo-Rite) is crucial, even with closing wheels that do a lot of packing (see p 8 – 9). Keetons & Flo-Rites should be set to the maximum tension, if adjustable. Keetons often need to be replaced annually, since the material weakens from sunlight and moisture. Check pressure by comparing the "snap" to a new firmer. The Mojo Wire provides up to 3x more pressure on a new Keeton—an advantage in nearly all no-till conditions.



Step 4, Close: Furrow closing should shatter *both* sidewalls, and cover the seed adequately and consistently: This requires 2 spoked wheels/row, since the furrow was created by openers prying the soil outward in both directions. To get maximum root development, both sidewalls must be chewed up by spoked closing wheels. Since the seed has already been firmed by the Keeton, it's desirable that the fill be loose, not packed. Thoroughly embedding the seed with a Mojo allows more aggressive crumbling of the sidewalls without pulling seeds loose.

Failure to break sidewalls adequately severely restricts roots. Crown roots—the main root system—must grow through the sidewall. If sidewalls are overpacked, "rootless" or tomahawk roots are the result.

PolyFlex™

Flexible Gauge Wheel

- Long-life tire that stands up to stalk abrasion
- Pliable to shed mud
- Keeps you running smoothly
- Flexibility to follow the ground contour

The gauge wheel's purpose is to keep the planter/drill running at a consistent depth and absorb the residue (in no-till). Until now, there have only been two options for gauge wheels: soft, rubber tires and rock-hard, solid-core polyurethane tires, making a tough choice for farmers. At Exapta, we have always preferred the rubber tires; they are pliable enough to absorb variations on the soil surface, from small stones to thick stalks, plus, rubber tires shed mud better due to their flexible nature. The downside to rubber tires is the wear-life in no-till conditions. Originally designed for tilled seedbeds, the abrasions of corn stalks, soybean stubble and cotton in no-till, cause rubber tires to wear quickly (in some conditions, only lasting one season). Hence, the introduction of polyurethane gauge wheel tires. Their wear life is exceptional, but rock-hard tires can increase soil compaction and may cause the row unit to raise or jump over variations on the soil surface, resulting in erratic seed depth placement. And, their rigid structure, causes mud build-up.

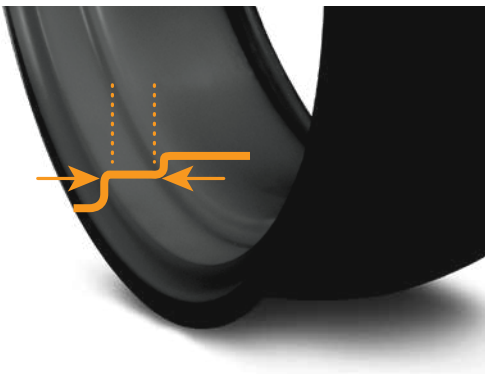
After extensive testing in a variety of conditions across the U.S., Exapta is pleased to offer the PolyFlex™ gauge wheel tire, combining the strengths and minimizing the issues of too-soft rubber and rock-hard polyurethane. With a 2-year warranty on the tire, the PolyFlex™ assures durability for long-lasting wear-life and pliability to conform to your soil type.

"At first I was skeptical if I would like [PolyFlex]. But **they are holding up way better than OEM rubber gauge wheel tires that were shot in 4000 acres.** We drilled 1500 acres so far and your PolyFlex tires look fantastic! I also like the Keeton/Mojo wire combo."

Tyler Miller, Bucyrus, OH • Exapta customer since 2020 (Case P-500 30' with P-500 conversion T-whls, Keeton/Mojo & PolyFlex)

"I've planted about 2000 acres after installing the PolyFlex tires and **I see zero wear.** We also planted thru some mud spots with no mud accumulation on the tires."

Steve Bartel, Hillsboro, KS Exapta customer since 2013 (White 9824, 24 row planter)



Available in 3/8" or 7/8" inner lip

Pliable enough to absorb variations on the soil surface, from small stones to thick stalks, plus, these tires shed mud better due to their flexible nature.

Introducing the PolyFlex COMPLETE ASSEMBLY

The Ultimate package: long-life PolyFlex tire mounted on a 2-piece, bolt-on rim with cast hub & spokes!

- **Outlasts rubber tire many times over**
- **2-year tire warranty; 1 year rim warranty**
- **Durable, cast spokes offer the widest opening possible to shed mud and debris**
- **Sturdy cast hub to hold bearing securely**
- **Common bearing held with snap ring for easy replacement**
- **Complete, mounted, bolt-on assembly for easy, fast installation**

Cross-section of Exapta's PolyFlex tire, a high-wear polyurethane material with a hollow core, that can flex.

We're pleased to introduce our PolyFlex™ gauge wheel, now as a complete assembly. The only polyurethane tire on the market with an air cavity that allows it to flex.

At higher downforce, rubber tires can collapse and bottom out, while solid tires have little to no flex and cannot conform to contours in the ground.

PolyFlex™ remains flexible in order to maintain performance in varying ground conditions. Engineered for balanced deflection to prevent excessive mud buildup and soil compaction while providing the excellent wear resistance of polyurethane tires. PolyFlex™ gives the benefits of traditional rubber tires and solid core tires without the drawbacks. Lab tested and field proven.

Fits most planters and single-disc gauge wheel drills using 5/8" or 16mm mounting bolt (JD 50,60,90 & N series, Case P500 & NH 2080 drills).

NEW

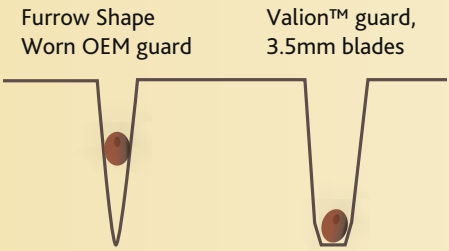
PolyFlex™ Complete Assembly, 4.5" cast hub and tire **$174.00**

Due to high demand, these are temporarily out of stock. Call to get added to the waitlist!

PolyFlex™ replacement gauge wheel tire, 4.5" width **$96.00**

Replace worn gauge wheel tires for a superior solution. Fits most OEM gauge wheel assemblies. Available in 3/8" or 7/8" lip on inner gauge wheel half.

Valion™
seed tube guard



Prevent blade flex • Avoid pinched furrows • Get consistent seed depth
2x – 4x wear life of OEM • Doesn't drag below blades

Valion™ seed-tube guards will eliminate seed tube wear and greatly reduce blade flex to create a consistent furrow for improved planting depth control. The Valion doesn't form the furrow by pushing soil—it doesn't drag below the blades, which would be very undesirable. Instead, the Valion keeps the lower edges of the blades at the optimum distance from each other so that the blades create a furrow of useful width, consistently, for uniform timing of emergence. Without a full-width guard, it's the amount of blade flex determining the width of the furrow, and this varies along the length of row because soil density changes every foot or two, so *effective* depth is always changing.

Valion™ on Kinze 3000. New! Improved design for consistent performance!

Valions are perfect for no-till or high-wear conditions, or anyone who is simply tired of replacing guards so often. While intended to limit blade flex, standard OEM seed-tube guards can wear substantially in just a few hours of use (esp. older John Deere & Kinze). Our chrome Valions will outlast OEM guards by 2 to 4x, so that furrows are properly shaped and seeds placed at the correct depth continuously down the row, and all the way through the planting season.

The ever popular Valion V300 for Kinze 3000's has been replaced by V350 to meet the high expectations of the Valion family of seed tube guards.

"**I run the Valions on my planter and I can confirm they will outlast JD guards 3:1.** I can't even get a full season out of the OEMs. I refer a lot of people to Exapta because of the Valions."

Stan Claybaker, Claybaker Custom Planting, Blackwell, OK
Exapta customer since 2014
(Valions on JD 1770 24 row)

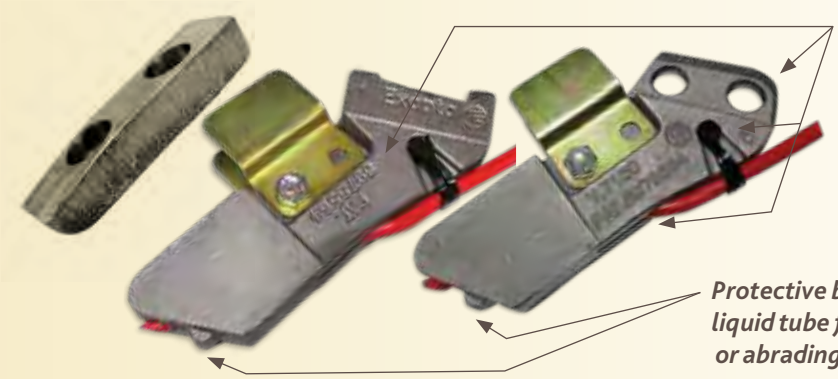
Chrome Valion for Kinze 3000-series **$41.37**
#V350 User-friendly hex-head bolts included. Preorder now for late Q1 delivery. Limited production.

Chrome Valion for Deere XP, ME5 *#V450* **$41.84**
(Not for ExactEmerge's brush-belt tube, or Speed Tubes) Twist-on style.

Chrome Valion for pre-XP and Kinze 2000s *#V150* **$46.04**
"Bolt-on," for JD 7000, 7200, & heavy-duty welded shank on 1700s ('03 & '04).
Also available with oversize bolt, bushings for shank holes that've been drilled out:

No more rivets!

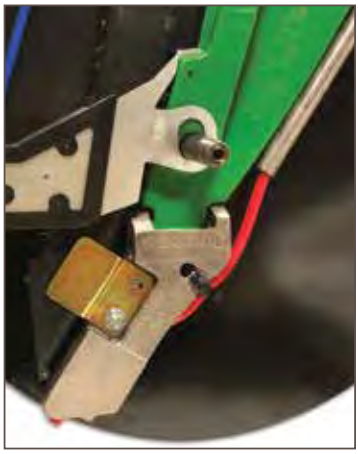
Prices subject to change.



US Patent No 8,978,564

Liquid Capability

Valions are also a slick way to apply liquids into the seed furrow (n/a on Kinze 3000 Valions). To make this setup as trouble-free as possible, and more affordable and durable than competitor systems, we offer our stainless-steel tube holders and heat-resistant plastic tubing.



- **No drilling—installs with existing bolt holes**
- **Secures plastic 1/4" line for liquids**
- **Keeps the small plastic line out of the blades**
- **Prevents damage from stalks**
- **Stainless steel for low corrosion**
- **Thick-wall pipe**
- **Premium, bulletproof**

"We used to fight our [competitor guards with tubes welded on]. **We switched to Valions and have solved a lot of problems we used to fight. Plus, the Valions don't wear as fast.** No more [competitor guards] on our farm. **Planting has been much more enjoyable since we switched to Valions.** Love your product!!"

Eric Decker, Hitchcock, SD
Exapta customer since 2015
(Valions on 24-row JD 1700 XP)

"The JD seed-tube guards are terrible—mine lasted about 300 acres before they were completely wore out the first year. I replaced them [in 2013] with Valions—**these are great and show almost no wear with around 550 acres on them [after one year]. [He ended up getting 5 yrs out of them.]** I switched to running [my pop-up] out the bottom of the Valion—this has been much better, with **no plugging or kinked lines to speak of."**

Matt Swanson, La Harpe, IL
Exapta customer since 2013
(Valions on 16-row JD 7200)

Note: We prefer applying liquids via Keetons. We view Keetons (or in-furrow "seed-lock" wheels) as crucial for consistent stand establishment in no-till, and keeping those devices clean can be more of a challenge when liquids are applied ahead of them—although this is entirely dependent on liquid rate, stickiness of the liquid, and soil properties. However, many people get along just fine year after year applying liquids ahead of Keetons.

Liquid tube holder *#L.454 for XP, MaxEmerge 5, #L.433 for JD 7200* ~~$35.00~~ $25.00
Liquid tube holder *#L.133 For JD 7000 / Kinze 2000* ~~$38.00~~ $25.00
Heat-resistant tubing with beveled end *28" length* $8.23
Special high-temp semi-rigid plastic.
Beveled end for easier insertion through Valion. (see photos on main Valion web page)

mojo wire™

Ensures fast, uniform germination • Lock seed in place
2x to 3x pressure of standard QA Keeton tail
Large payback potential, especially in resilient no-till soils
With torsion loops to maintain pressure for a longer lifespan

In loose tilled soil, planter "press" wheels could easily pack the soil from the surface all the way down to the seed. But this method is seriously flawed for no-till's firm (structured) soils, since enormous pressure must be applied at the surface to do any seed firming: Averaging 5 lbs of pressure at seed depth might require 50 to 150 lbs applied to a wheel at the surface, and certainly won't be consistent at seed depth. This severely packs the sidewalls and soil over the seed, to your detriment. Why not apply a precise pressure exactly where it's needed—at the seed's location?

The Keeton seed firmer was a good idea, but often isn't enough—applying only a few ounces to (at most) ~ 2 lbs of pressure. (Compare *in-furrow* 'seed-lock' wheels supplying 10 – 20 lbs of pressure on a similar surface area, precisely at the bottom of the furrow.) Furthermore, Keetons lose their tension fairly quickly.

The Mojo Wire solves this by supplying up to 3x more pressure to the Keeton or Flo-Rite. Customers are frequently amazed at the magnitude of improved germination—in higher percentages of seeds emerging, and in uniformity of timing of emergence. (An independent study in Illinois in 2011—the only independent study we know of—found a 6.4% increase in corn ear counts with Mojo Wires, and yield gains are often even greater in tough conditions—from our experience, and what customers report.) Plus, increased tension on the Keeton greatly reduces mud accumulation by creating self-cleaning scrubbing against the sidewalls.

Struggling to get good emergence with your planter in no-till? —Inadequate seed firming is often the culprit. Seeds should be securely embedded into the bottom of the furrow. You might be pleasantly surprised at how well your crops emerge with the Mojo Wire—you owe it to yourself to try them.

"Our corn stand has improved from the Valion seed tube guard and Mojo Wires. Can't say if one did more than the other as they were both installed at the same time, but **our corn used to look ragged, just like the picture in your booklet on page 8 [below].** That is why we purchased them."

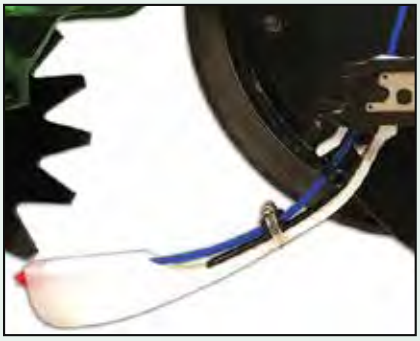
Justin Baresich, Newbury, ON • Exapta customer since 2020 (24-row Kinze planter)

"The Mojo Wire is the best thing that ever happened to the Keeton….**The last two years ['09 & '10] were the wettest ever for us, and, shoot, we never had mud balling up like we used to [without the Mojos].** I sure wouldn't run a Keeton without a Mojo Wire."

Ralph Holzwarth, Gettysburg, SD • Exapta customer since '08 (Mojos & Keetons on 8-row JD 1700-series CCS planter)

Ragged corn stand due to inadequate Keeton pressure: poor seed-to-soil contact, erratic emergence. Late-emerging plants are weeds.

Nearly perfect corn stand with Mojo Wires. All plants are the same size.



Keeps the Keeton clean and working even in tough conditions.

"Without the Mojo Wires, I would have fertilizer all over my closing wheels. So, I knew the Keetons were riding out of the furrow—not firming the seeds. **After I installed the Mojo Wires, they kept the Keetons down in the furrow and they were doing what they were actually designed to do.** I was really happy with them."

John Ankerman, St. Marys, OH
Exapta customer since 2016
(JD 1770 NT, 12 row)

"I've seen an 8 - 9 bu/a advantage of using the Keetons with Mojo Wires during testing for Precision Planting on my farm. The seed-to-soil contact is more consistent. I hear of guys complaining about Keetons dragging in mud and I used to have a little bit of that issue, but that's due to not having enough pressure on the Keeton. **I now do not have any issues with dragging due to the added downpressure provided by the Mojo Wires."**

Jared Nordick, Rothsay, MN
Exapta customer since 2015

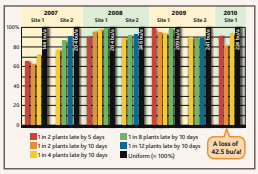
"Between the Mojo Wires & Valions, I am getting the best seed placement and emergence since switching to a planter for grain sorghum and soybeans. Our soils require fast emergence to combat crusting and your products deliver that."

Trent Milacek, Enid, OK
Exapta customer since 2019
(JD, 12 row planter)

"I was impressed with the Keetons & Mojos! I have better stands in cotton this year. **Side-by-side with my neighbor, same day same model planter. I got a good stand with Keetons & Mojos; he had a poor stand with his stock setup.** I'm putting Keetons & Mojos on my drill this fall because of what I saw this spring."

Tad & Lloyd Williams, Merkel, TX
Exapta customers since 2020
(Mojos & Keetons on 1770 planter)

Uniform timing of emergence trumps uniform spacing for yield effect:



"Uniform emergence is even more critical as individual plant competition for resources becomes greater, such as **in droughty conditions."**

Paul Jasa, planter & no-till expert, Univ. of Neb.-Lincoln

Numerous studies prove this. Indeed, loss from non-uniform *timing* of emergence is about 4x greater than uneven *spacing*. (Full details at www.exapta.com/working-knowledge/library-links/) And when it comes to making sure all the seeds experience the same conditions (crucial for uniform timing of emergence), no one has emphasized this more than Exapta—everything we do is focused on improving seed placement.

Mojo Wire kits for Keetons & Flo-Rites (most planters) **$11.00–23.00**

The redesigned Quick Attach Keeton and Mojo Wire solve most of the problems associated with prior designs (including the Universal). See p 28 for details on various models

Keeton seed firmers (most planters) *See p 28 for details*

*Keeton is a registered trademark of Precision Planting, Inc.

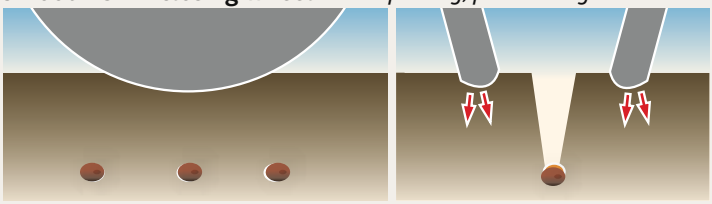
Why spoked closing wheels?

Planters and drills were engineered for tilled seedbeds. For instance, smooth closing wheels overpack the furrow in no-till, especially when soils are damp—reducing emergence and hindering root penetration of the sidewall. With the soil structure of no-till, smooth wheels struggle to close the furrow. An honest assessment:†

† From numerous observations by 3rd-party scientists & farmers.

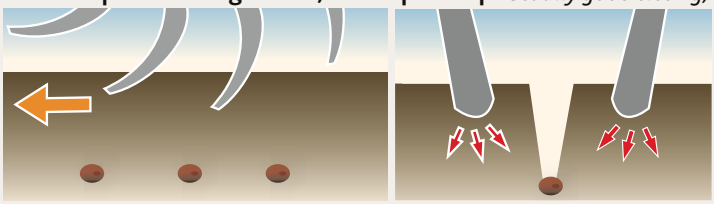
Poor	Fair	Good
1 2 3 4	5 6 7	8 9 10

Smooth OEM closing wheel *Excess packing, poor closing*



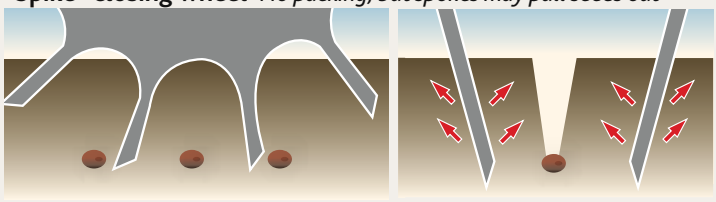
Sidewall Shatter	1
Avoids Packing	1
Mud/Stalk Cleaning	8
Depth-limited	10

Curved-spoke closing wheel, wide spoke tips *Usually good closing; excessive packing (sporadic)*



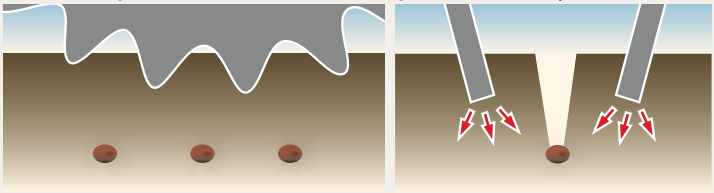
Sidewall Shatter	7
Avoids Packing	3
Mud/Stalk Cleaning	3
Depth-limited	5

"Spike" closing wheel *No packing, but spokes may pull seeds out*



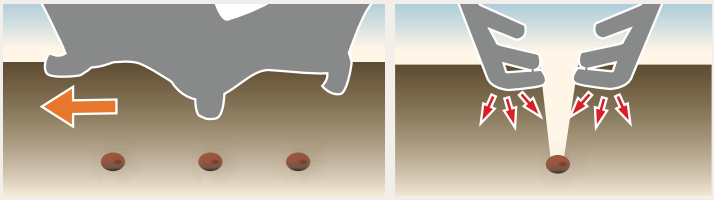
Sidewall Shatter	10
Avoids Packing	10*
Mud/Stalk Cleaning	8
Depth-limited	1

Notched spoked wheel with thick spokes *Can overpack*



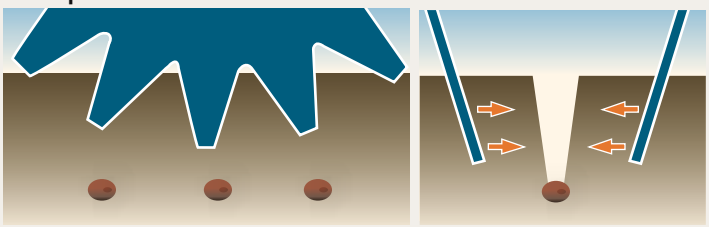
Sidewall Shatter	9
Avoids Packing	6
Mud/Stalk Cleaning	6
Depth-limited	9

Cage-type closing wheel: horizontal feet *Excessive packing; issues w/ upright stalks & small rocks*



Sidewall Shatter	2
Avoids Packing	4
Mud/Stalk Cleaning	4
Depth-limited	10

Thompson wheel



Sidewall Shatter	10
Avoids Packing	10*
Mud/Stalk Cleaning	8
Depth-limited	8

**Closing wheels that don't pack the soil above the seed (a good thing) shouldn't be used without a separate in-furrow firming device (Keeton seed firmer or seed-lock wheel).*

US Patent No 6,907,833

THOMPSON WHEEL™

Better than ever!

Same proven spoke design we've used for 20 years.

NEW: Bolt-on star wheel = cost-effective replacement stars
Aggressive furrow closing with self-limiting depth
Creates ideal zone for crop emergence & rooting
Heavy-duty bearing with 5-yr guarantee
Zinc plating for even longer wear life • Doesn't overpack

How is the Thompson wheel better?

Before introducing the Thompson wheel in '02, we did a massive amount of testing to arrive at this particular combination of design features. The result: Dramatically improved performance. The thin spokes allow easy soil entry, for excellent crumbling of the sidewall. The thinness also reduces mud accumulation. The blunt spoke tip, tapering sides of the spoke, and optimal spoke spacing further enhance sidewall shattering, but with self-limiting depth. Plus, the Thompson wheel avoids the pitfall of excessive weight—when conditions are damp, too much packing over the seed can be hazardous to your crop. In addition, it "self-sharpens" as it wears for consistent closing performance.

Also, the Thompson wheel has proven durability: High-carbon steel, a truly robust bearing with a triple-lip seal, and our exclusive steel shroud for superior bearing protection—plus, our 5-year warranty on the bearing.

"When we first started planting no-till we were using a JD 1760 that really wasn't set up for no-till and **we were having trouble closing the seed trench, that's when we bought our first set of Thompson wheels from you.** This is the 2nd planter we have set up with your Thompson wheels, Keetons and Mojo wires. **We have a neighbor with a brand new planter without any of your stuff. We get twice as good of a stand as he does!"**

Dave Weber, Holyrood, KS • Exapta customer since 2010 (Thompson wheels and Mojo Wires on JD XP, 16-row planter)

"We put T-wheels on the corn rows & could see a difference when we planted soybeans."

Norman Bontrager, Sebree, KY • Exapta customer since 2016 (T-whls, Valions & Mojos on Kinze 3500 8/16)

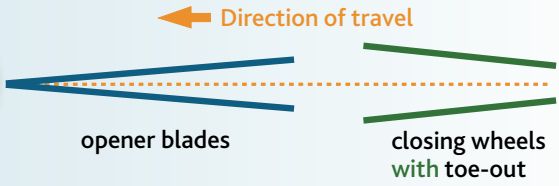
Exapta's toe-out wedge is built into the shroud for easy adjustment, from zero degrees, to 3° or 6°. *Read more on p 12.*

2010 comment: "We are sold on Thompson wheels. We've used them for 4 years on over 7,000 acres, no breakdowns. Planting beans in Missouri-River-bottom gumbo, we could never get much over 15 bu/a, no-till or full-till. However, when we installed the Thompson wheels, we have raised 40-bu beans every year with no-till. **Wet or dry, they do a good job of covering the seed."** [Feb 2014 update:] "**The bearings last forever**; we've never had one fail. Last spring was very wet. The Thompson wheels worked, and **never balled up in wet soil conditions."** [Jan 2019 update: Finally had one T-whl brg fail.]

Kersten Farms (Myron, Mark & Karl), Malta Bend, MO • Exapta customers since '07 (T-whls, toe-out on all rows of 12/23 Kinze split-row planter)

Toe-out for closing wheels (planters)

NEW! Built-in Toe-out



"Toe-out" means the front edge of the wheel tracks a bit wider than the rear: Our wedge creates up to a 6-degree toe-out on planter closing brackets, which have zero initially (planters running "nose-down" actually have toe-*in*, resulting in no closing action at all). Toe-out causes closing wheels (all types) to more actively engage and pull soil back into the furrow—the reverse of the opener blades prying soil apart to create the furrow. (Note: JD 50/60/90/Pro-series drills have toe-out built into the closing arms.) The need for toe-out is greater in high-clay, low-OM soils, or in soddy conditions.

Exapta's toe-out wedge is built into the shroud for easy adjustment.

"**In wetter conditions, the Thompson wheels help close up the seed furrow.** They help break up the dirt to get better cover over the seed."

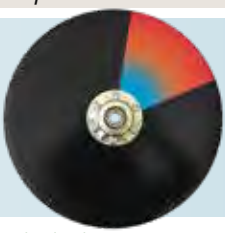
Howard G Buffet, Decatur, IL
Exapta customer since '04
(T-wheels on JD 1700-series planter)

T32 wheel (metric or 5/8" sleeve/shroud) **$145.00**

Fits most JD, Kinze, AGCO White, and Great Plains planters. Also fits JD 50-series drills; Case SDX (with seed-lock wheels); and Case P-500 drill using special bracket & torsion spring from Exapta—see p 27. Includes snap-ring & bearing (installed), steel shroud with built-in toe-out, dustcap.

Forges de Niaux for Planters

Sharper, Stronger, Proven Technology
Double-row larger bearing, bigger rivets
30 – 40% more wear-life • Powder coated for increased quality
Unique steel & special heat-treated process



Forges de Niaux (FDN) offers a longer life, stay-sharp blade with a hub, bearing and rivets that hold up! 30 – 40% more wear life than competing openers. The FDN takes it to the next level with a unique steel and special heat-treat process. Uses Peer double-row, 205 bearings, whereas OEM and other aftermarket are 204 bearings (smaller diameter). Uses 5/16" rivets instead of 1/4". Great blade for Pre-XP, Kinze, White and Case even without the larger bearing.

The stamped hub is finish-machined, unlike any other, creating an improved fit over all other brands. FDN narrowed the tolerances to 50 thousandths axial runout and 1/16" radial runout, whereas industry tolerances are 80 thousandths axial runout and 1/8" radial runout. The bearing is never loose in the hub, nor too tight (which shortens bearing life). The order of the finish machining (rivet holes after the centerline is established), along with the powder coat painted blade, ensures everything is within tolerances and the bearing doesn't fail prematurely from misalignment.

"In our tough, northwest Kansas dryland conditions, we've never had openers last a full season. We put the 205 bearing FDN blades on half our planter and new JD openers on the other half. We have since done 4,500 acres, where approximately half the JD openers failed compared to zero problems with the FDN openers. We are very satisfied."

Daniel Leebrick Atwood, KS • Exapta customer since 2011 (JD 1770 24 row)

Forges de Niaux 205 blade for JD planters: XP & ME5 **$55.08**
Same dimensions as OEM. Uses larger Peer double-row 205 bearings & 5/16" rivets.

Forges de Niaux 204 blade for JD Pre-XP & Kinze **$47.92**
Peer 204 bearing and ¼" rivet. CALL TO PRICE OTHER MODELS

Tech tips for gauge-wheel drills:

Some drill opener designs cannot adequately perform Steps 1–4 (see page 30) because they are hangovers from the tillage era. One design that fulfills Steps 1, 2, 3, & 4 is the John Deere 50, 60, 90 & Pro-series single-disc, gauge-wheel opener. Some comments to help them function:

Step 1, Cut: Opener blades should be replaced when they've lost 5/8" off of original diameter (bevel is too shallow and the blade is dull by this point). Because the boot is wider than the furrow being cut (except Pro-series), it is very difficult to push the boot into the soil. Generally, the lower edge of the boot should be approximately at the soil surface (Pro-series can run below the surface, which is a good thing. Note, however, they may plug with oats or garbanzos due to narrower channel). Replacing blades frequently cuts down on boot wear. Maintain the big pin & bushings at front of opener to prevent furrow from getting too narrow.

Step 2, Place: Seed boots should be inspected and maintained—the wear is not obvious from casual inspection. When the bottom outside edge of the boot is no longer straight across, performance is seriously compromised (see photo). The 60-series drills had a poorly designed seed boot and should be upgraded to the 90-series boot. Maintain leaf springs to keep the boot against the blade. Leaf springs weaken with age, and eventually break.

Inadequate down-pressure causes shallow furrows and more misplaced seeds. The only meaningful indicator of down-pressure is compression of the big coil spring.

If boot attachment hole becomes too worn, boot drags out of position, causing more seeds to bounce out of the furrow. There are several attachment-hole repair kits on the market (avoid repair kits that don't let boots set flush and cause major plugging problems). We recommend Pro-Stitch boot stabilizers to eliminate slop in the boot attachment. Upgrade to Ninja seed bounce flaps on back of boot: These help keep seeds in the furrow bottom.

The gauge wheel should be firmly on the soil surface during seeding, which holds the sidewall together while the blade exits the soil. Also, for this reason, Reduced Inner Diameter (indented) gauge tires can adversely affect seed placement. Air drills especially may require additional frame ballast (sometimes a lot). Read more at: www.exapta.com/working-knowledge/tech-tips-for-drills.

Step 3, Firm: Use a good seed-lock wheel, preferably a narrow, semi-flexible urethane wheel. A flexible wheel self-aligns for consistently good performance. (The JD firming wheel runs on a rigid, overly wide rim.) Properly shaped firming devices will engage all the seeds and push them securely into the bottom of the furrow, without the firming device getting hung up on the sidewall.

Step 4, Close: Close the furrow by shattering the sidewall and pulling loose material into the furrow. Avoid packing soil above the seed.

For more on this topic & others, read Exapta's newsletters.

exapta.com/newsletters

exapta.com/working-knowledge/tech-tips-for-drills

UniForce™
Hydraulic Downpressure

Study proves 2.68 bu/ac increase in soybeans with UniForce!†

Get your JD 50/60/90/Pro-series drill to work the way it should.

Uniform pressure on all openers • Reduce/eliminate hairpinning • Less sidewall compaction
Get consistent depth! • Better use of frame weight • Less frame stress
Greater up/down travel on openers • 3-year warranty on cylinders *(some restrictions apply)*

US Patent No 11,291,155 B2; US Patent No 9,930,822

The biggest downfall of the JD 50/60/90/Pro-series drills is how down-force is applied—the rockshaft twists to compress a big coil spring on each opener. Because the spring is nearly parallel to the arm, the opener has almost no down-stroke—i.e., the spring is applying the correct amount of down-force for only about 1/4" of its range. Had the spring been oriented differently, the problem wouldn't be nearly so bad.

So, you must have fields that are laser level for these openers to work correctly. Even 1/2" depressions give them fits. The spring starts to relax as the opener goes into these miniscule depressions, and you lose down-force—the opener loses depth, and starts hairpinning. To compensate, everyone cranks the pressure way up—so that the majority of openers have far too much pressure, just to keep those passing thru mild depressions working halfway decent. You end up with excessive sidewall compaction on most of the rows, while some aren't even holding depth. Not to mention it takes a bunch of extra ballast on the frame.

†Harvested with a full header in the UniForce planted beans versus full header in beans planted by OEM springs. JD 1890, 42ft on 10" spacing. Trial conducted on a real farm, under real farm conditions, by an actual farm operator, not a cherry picked ¼ acre test plot.

"Before installing UniForce the drill openers looked like a piano board being played. Now that UniForce is installed, it is amazing to see how no opener bounce occurs. The entire drill has consistent down-pressure, giving us uniform depth. We are now obtaining what we set out to accomplish." **[2019 update] "Since adding UniForce, I've been able to reduce my soybean seed population from 165,000 to 140,000, so a savings of 25,000/acre. This saves me about $8/acre."**

David Hoar, Campbellsburg, IN
Exapta customer since 2016 (43-ft JD Single rank 1690 CCS, 32 openers on 15" spacing)

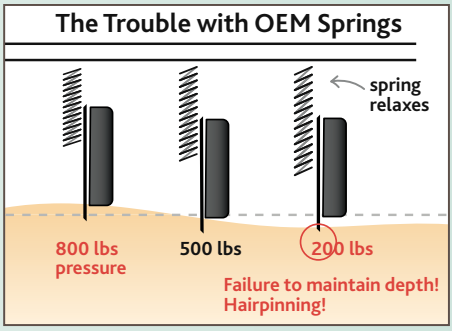
"We have about 1200 acres on our UniForce system and are really happy with it! Every time I dig the seed is right where you want it!"

Adam Heczko, Green Sums LTD, Smithville ON • Exapta customer since 2016 (UniForce, DuraLoks, Ninjas, T-wheels on 1890 drill)

"The openers run a lot smoother and they don't bounce around like they used to [before installing UniForce]. **Seed placement is definitely better, therefore obviously emergence is better.** We have faced a couple drier years than normal, but I've been **quite surprised with some of the yields!"**

Glen Sebok, Taber, Alberta
Exapta customer since 2012 (UniForce on two 43-ft JD 1895s)

UniForce hydraulic down-pressure system
Call for UF pricing and to receive a free quote. All of our Exapta team members have hands-on experience with UF. They can answer your questions and work up a quote for you.



UniForce cylinders are made from top-quality materials and have extra packing rings for a very long life.

Our UniForce hydraulic system fixes Deere's design debacle. Now, you can get uniform pressure on every single opener throughout its full stroke. The result is better cutting, less hairpinning, holding blade depth much more accurately, less premature sidewall blowout (from gauge wheel not being firmly on the soil surface), and far less sidewall compaction. Another problem with springs is that they bounce: Hydraulics don't have this problem. Drive faster *and* greatly improve precision of placement.

UniForce uses single-action cylinders along with the OEM rockshaft, which is still used to raise and lower the openers. Both can run on a single tractor remote, or they can be kept entirely separate.

Large 3/4" header hoses* allow oil to move quickly from one end of the drill to the other, and between the front & back ranks. This keeps pressure almost perfectly constant even while going over steep terraces or through swales at high speed. Special brackets support the header hose on most air drill sections. Large 1/2" drop hoses let oil move in & out of cylinders very rapidly. But don't be fooled by the size of the hoses: The flow requirements are relatively low—for 48 rows, the UniForce takes only 4 GPM (for comparison, the air cart fan needs 25 GPM). (*Box drills use 1/2" header hoses.)

"Seed placement is beautiful, wet or dry, almost like a planter. In combine tracks, tractor tracks, grain cart tracks—it's all at the same depth. All the seeds are down in the bottom of the furrow and firmed in, right where they should be, with loose soil over the top…**UniForce, along with T wheels, have taken a mediocre drill and turned it into a truly superior-performing seeding tool.** It's not just a slight improvement, it's night and day. A lot of people will give a testimonial on something just because they've spent the money, but *I am impressed.* I was skeptical and dragging my feet about purchasing UniForce, but the results are stark and undeniable. **[2019 update] Extremely pleased. We're seeding beans into 170-bushel corn stalks, and I believe these are the best stands I've ever had—with the worst seed I've ever had [low-vigor as determined by Cold Germ and AA]. I'm absolutely convinced that anyone running this type of drill will find this system highly beneficial."**

Kent Stones, Lebanon, KS, Exapta customer since '99 (UniForce & T-whls on 42-ft JD 1890 on 7.5" spacing)

For farming over terraces, especially when using only a single rank of openers, Exapta offers an optional 2.5-gallon accumulator for UniForce on air drills. For 2 box drills together on a hitch in terraces, we have 1-gallon accumulators (one for each drill). When hitting terraces square-on (angle isn't a problem), even the highest-capacity tractors can't supply enough oil flow to keep the pressure perfectly constant, but our accumulator helps minimize fluctuations.

Optional Accumulator, 2.5 gallon *Call for Pricing*
Optional Accumulators, pair of 1-gallon *with brackets, hoses, fittings*

UniForce™
Hydraulic Downpressure

UniForce Installation Services

NEW

Exapta is now offering UniForce install services year-round!

Our experienced install team will complete the install for you from start to finish.

- Delivery
- OEM spring removal
- UniForce install
- System charge to assure operational success

For many of our customers, the install process has been the biggest hurdle. We are pleased to offer this service so you can prevent the headaches and better utilize your time—as time is money!

Cost: 15% of UniForce order total*

"Installation and getting us up and running was a very smooth process. UF took the bounce out of the openers! This was wheat drilled back in corn last fall with UniForce installed."

JL Farms, Jess Schwieterman, Syracuse, KS
Exapta customer since 2012 (UniForce on 60' 1890)

*Offer Terms: Limited geography. We are willing to travel considerable distances for larger installs and/or several systems near each other, so please inquire regardless of location and the sooner the better. The earlier your install is scheduled, the better we can serve you by mapping installs efficiently.

"Your two-guy crew was really good to work with. Tony was great about communications. I was really impressed."

Adam Rozell, Elk Point, SD
Exapta customer since 2014
(UniForce on 1990 CCS 40' w/ 15" spacing 32 rows Single rank)

SeedVU Air Drill Venting Unit

Is plugging your air drill's primary lines a constant worry?
Problems with seed bouncing or blowing out of the furrow?
A simple solution—installs in just a couple minutes for the entire drill (fits on top of distribution head. No modifications needed).

SeedVU® gives you the peace of mind of running your fan where it should be, and not worrying about seed blowing out of the furrow, all while monitoring for primary-line blockages.

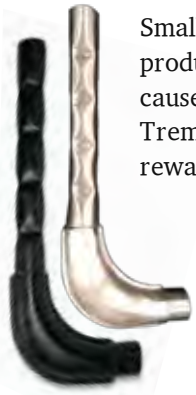
The SeedVU® takes unwanted, excess primary-line air pressure and separates it from the seed and fertilizer stream, right where you need it to: the distribution head. This allows seed and fertilizer to travel to the openers by gravity, or assisted by an adjustable volume of air. It's up to you!

"I love the SeedVUs. If you've ever plugged a primary, it takes 2 hours to clean it out. That's a lot of downtime, and costs us money. **With the SeedVUs, I can crank the fan speed up and never worry about plugging a primary, and actually do a better job of seed placement** by dumping most of the air with the SeedVU."

Tom Cannon, Blackwell, OK
Exapta customer since '03 (SeedVUs on JD 1890)

SeedVU for late-model air drills **$215.00 – $305.00**
Adjustable air diffuser/venting unit. Fits late model JD outlet heads with twist on lid (rubbery heads/"pods"), late model Case/NH heads, Smallaire conversion heads and more. (Does not fit JD flat top heads with J bolts. Consider updating those to the Smallaire heads).

Smallaire riser pipes & conversion heads



Smallaire riser pipes have an enlarged elbow to properly disperse product going up to the distribution head (ordinary mandrel bends cause ricochet and overload one side of the head). Dimples also help this. Tremendous durability. Smallaire are the wizards of air flow. Reap the rewards of a uniform amount of product going to each opener.

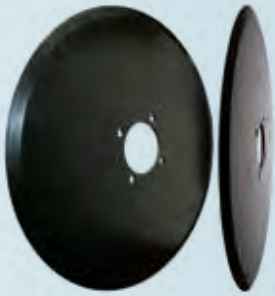
For best results, also get rid of inferior distribution heads, such as the Deere steel-lid heads. Exapta is proud to be the exclusive distributor for Smallaire products in North America.

"I didn't think the [Smallaire distribution] head was going to be anything special, but **they ended all of our plugging problems and we backed the fan speed off another 200 RPM.** Never had a secondary hose come off, either. We got the [Smallaire] stainless risers from you, and they're an undervalued product. Great product, and I will buy again [for my other air drill]. Thanks!"

Jamie Kouba, Regent, ND • Exapta customer since 2016 (Smallaire manifolds & riser pipes on 60-ft SeedMaster air drill)

Smallaire riser pipe 2.5-inch (black or stainless) **$137.50-$155.00**
Smallaire conversion heads **$199.00 – 351.00**
Available from 3-16 outlets. Smart upgrade for older JD with J bolt heads.Unique curved design evenly distributes seed to Secondary outlets (no flat spots for seed to deadhead against). Compatible with SeedVU. Zinc plated and powder coated paint.

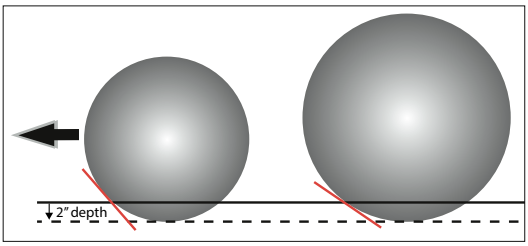
Opener blades: JD 50/60/90/Pro-series and now P-500/NH 2080:



Deeper bevel (3/4") vs others (5/8")
Sharper, Stronger, Proven Technology
20 – 30% more wear-life
Protected with a lifetime warranty on breakage

Forges de Niaux (FDN) offers a longer life, stay-sharp blade! The FDN 200 takes it to the next level with a unique steel and special heat-treat process making it a stronger blade and has 20 – 30% more wear-life than the next-best—our old standby, the Ingersolls. The general hierarchy for wear-life, sharpness, and quality/consistency is Niaux 200 > Ingersoll ≥ Bellota (JD since 2016) > Osmundson (JD 2015 & prior). The Forges de Niaux truly takes it to the next level.

Bigger isn't always better. At least not for opener blades cutting mulch (and soil) in no-till. Too many OEMs and resellers recommend using 20 – 24" opener blades on their drills—even 18 5/8" is not ideal. Mostly so they can tout how long they can go before needing replacement. The problem with larger blades is that the angle of intercepting the soil line (and mulch) becomes too flat (see diagram) at normal operating depth for placing seeds, so they don't cut well—they're more likely to hairpin. It's like a knife or a scissors—they cut well at certain steeper angles, but tend to skate or bend the material rather than cutting when the angle is too shallow. Opener blades have the same issues. Also, it takes more downforce to hold a larger blade in the soil. The thicker the blade, and/or the shallower the bevel, the worse the cutting.



"I am very happy with these. We run across 5000 acres on average a year. I could never get entirely through the year with JD or Ingersoll blades, but with the Forges de Niaux (FDN) blades I can get another 500-1000 acres. We have such hard rocks and soil that we run across, so it's really hard to keep disc up-to-par. **With the FDN openers we can actually make it through the season and then some."**

Corey Schumacher, Napoleon, ND • Exapta customer since 2018
(Forges de Niaux blades on 42ft on 10" JD 1895 drill)

Forges de Niaux 200 blade for JD 50/60/90/Pro drills	**$51.18**
Stack/Stem Special: 90 blades or more (Call a friend, split a stem!)	**$47.87**
Forges de Niaux 200 blade for CIH P-500/NH2080	**$57.21**

FDN blades available for other drills – call for pricing!

Leaf Springs for Seed Boots JD 50/60/90

20% stronger than OEM, verified by an independent test
Less breakage for longer service life • Maintains strength

For the seed boot on JD 50, 60 & 90-series NT drills. Manufactured to Exapta's high-quality specs for longer service life (less breakage, maintains strength). Special ultra-durable paint process prevents rust. 60-series boots require spring to be trimmed. We recommend new leaf springs with every other set of blades.

Leaf Spring for seed boot on JD 50/60/90 drills	**$6.00**

Pro-Stitch Seed Boot Stabilizer for JD 50/60/90

Removes up and down play of the seed boot
Alternative to labor intensive boot pivot and/or main opener arm drilling & bushing installation
Simple to install with no drilling or machining required
A practical way to address boot slop when your boots are still good!

US Patent No 9,485,903

Far left: seed boot holes are 'egged' out, causing boot slop.

Left: Pro-Stitch Seed Boot Stabilizer installed on a 50-series boot.

Pro-Stitch Seed Boot Stabilizer is a patented, simple, bolt-on device designed to fit between the main opener arm boot pivot flanges and the seed boot, eliminating the up and down movement of the seed boot and allowing for a consistent furrow and more even seed placement.

Pro-Stitch Seed Boot Stabilizer for JD 50 & 90 drills **$40.00**
PS100 for 90; PS150 for 50-series boots. Includes necessary hardware & new seed boot pivot pin.

Primary & Secondary Hoses for Air Drills

2x – 3x wear life of OEM & competitor primary hoses
Urethane lining: longest-lasting hose on the market
UV protection for extended wear life—no cracking
Clear spirals, see when product is flowing or plugged!

Our primary hoses are the best on the market, lasting 2x – 3x longer than any other hose during internal sandblast testing. Constructed with a urethane lining in place of the "blended" materials used by OEM & competitor hoses. UV protection to withstand sunlight decay. Transparent, see-through spirals in material allows you to detect/locate blockages immediately.

Our secondary hosing is made from PVC blended with polyurethane for up to 2x the wear life of OEM. UV protection for longer wear life in the field. Plus, our secondary hose is the same clear black as Primary Hose, allowing you to see when product is flowing or locate a blockage.

"I love this air seeder hose! This is the first hose I didn't have to heat to get it to slide on to the fitting. The hose I bought from Case only lasted 1 ½ years."

Rob Laubach, Grand Camp, Inc., Carter, MT
Exapta customer since 2020 (SeedVU & Primary Hose, Case 700 drill)

"I covered 9-10K acres with the hoses & didn't see much, if any wear. Comparing to the OEM hoses on their second season & I think I used an entire roll of duct tape to finish my sorghum!"

Caleb Nine, Lavern, OK •
Exapta customer since 2020

Primary Hose (sold in 100ft rolls) **$795.00** (7.95/ft)
2x – 3x wear life of OEM and competitors. Urethane lining for longest-lasting hose on the market.

Secondary Hose (sold in 100ft rolls) **$227.00** (2.27/ft)
Up to 2x wear life of OEM. Transparent spirals—see when product is flowing or plugged.

NINJA™ NEW

Seed Bounce Flap

Ninja seed-bounce flap for JD 50, 90 & Pro-series drill boots:

Forward-bending flap keeps more seed in the furrow
For 50, 90 & Pro-series drill boots
Flexible • Doesn't break off
At least 5x wear life vs others

The flap on the seed boot is what keeps seeds from bouncing out of the furrow, and this is even more critical on air drills, since the air stream is also trying to escape and may carry seeds along with it. However, JD & aftermarket flap suppliers use a straight flap, made from materials that are too stiff—often breaking or warping up. The issue with straight flaps is that it leaves a triangular gap (see photo) for seeds to escape, and this gap gets larger when the straight flaps bend upward during use, due to riding on the sidewall.

Our Ninja flap has a 20-degree forward bend to help close this gap, thus keeping more seeds in the furrow. The forward bend helps deflect seeds downward into the furrow bottom before dust and chunks of sidewall fall in ahead of the seed. The flexible material and tapered end prevent the Ninja flap from riding on the sidewall. The result is better seed placement. Ninjas also shed mud better than OEM and competitors, and proven to outlast any other flap/tab by at least 5x.

NEW Pro-series Ninjas have the same 20-degree forward bend for the best seed placement possible.

We are setting the record straight on seed bounce flaps with our 20-degree forward bend and a tab that outlasts all the rest! Watch the videos at www.exapta.com.

"**The Ninjas hardly wore at all. They fit down in the furrow so much better than other flaps on the market.** I really appreciate what you guys are doing for the farmer."

Ed Meng, Oregon, MO • Exapta customer since '08 (Ninjas on JD 750)

"The Ninja seed bounce flaps put the seed at the bottom of the trench better than the other flaps available. **I've ran OEM and competitor brands, but the Ninja is the best.** I have been impressed to say the least."

Ken Gardner, Williston, ND • Exapta customer since 2017 (Ninjas on JD 1890)

"The Ninja tabs are the best by far that's out there. **We've covered 15–20,000 acres with them and they are showing very little wear!"**

Dale Nelson, Homestead, MT
Exapta customer since 2015
(Ninjas on JD 60ft on 10")

Ninja™ flexible seed-bounce flap for JD 50 & 90 drill boots **$7.30**
Product enhancement includes a new "U" clip ($2 value). Fits Standard and Extended Wear boots.

Ninja™ flexible seed-bounce flap for JD Pro-Series boots NEW *Coming soon!*
Right and Left

DuraLok™ seed-lock wheel

DuraLok™ for JD 50/60/90/Pro-series drills

Superior firming • Easier furrow closing • Stays clean vs others

Not too narrow, not too wide, not too rigid, not too soft, but just right.

Narrower to fit the furrow better • Easily replaceable bearing

Highly wear-resistant material • "Tire" won't pull out of the rim

Narrower to provide more consistent seed-to-soil contact. (Wider firming wheels also pack the sidewalls more, making the furrow harder to close.) Flexible to self-align during slight turns or when drill is drafting downhill. Tremendous wear life.

The sleek shape of the DuraLok™ allows it to stay clean* when OEM and competitor (aftermarket) firming wheels are clogging with mud, pulling seeds out, and dragging against the gauge wheel. (*Depends on soil type.) Now with UV-resistance to hold a bright yellow color for many years. Since 2018, we now use the exact same Peer bearing that JD uses in 90-series firming wheels.

"I highly recommend to pull off the JD wheels and put DuraLoks on. They are **thin enough to fit perfectly in the seed 'v' and have flexibility.** I've never seen mud buildup on them either."

John Heermann, Haxtun, CO
Exapta customer since 2015
(JD 1890 drill)

"We love the DuraLok wheels! They have performed just as advertised, they work in all conditions. I had problems with the OEM wheels coming apart on the outside rows when turning and **these flex and stay in the row and they shed mud** (when we have mud, very rare in this part of the country). The DuraLok wheels are the only wheels we will use from now on."

Kory Hastings, Great Falls MT
Exapta customer since 2017
(DuraLoks, Ninja flaps, T-whls, bushing kits on JD 1895 43ft with a 1910 TBH cart)

"Get the DuraLok from Exapta. That puppy sheds mud and won't cause plugging issues like OEM when it's sticky and wet out. Those **DuraLoks flat out work—an excellent product.** Try one and you'll see what I mean."

Roger Neshem, Berthold, ND
Exapta customer since 2012
(DuraLoks, T-whls on 60-ft & 40-ft JD 1890s)

A great many of our customers report that no other seed-lock wheel even comes close to staying as clean as the DuraLok. We'll keep you running when all the others are clogged up.

DuraLok seed-lock wheel *Fits JD 50/60/90/Pro-series drills & Case's SDX. Narrow, sleek hub to shed mud better than OEM & aftermarket firming wheels w/ wide brgs/hubs. Wheel dimensions are 0.45" x 9" — the narrowest on the market because that's what fits the furrow the best.*
Now with same Peer bearing as JD 90-series.

$50.00

Price Slash!

Bushing Kits

Keeping the firming & closing arm pivots working properly can be a real hassle on the JD 50/60/90 drills. Even after Deere upgraded them circa '09 to include seals, they still have a habit of packing full of dirt and not taking grease. But with the Aricks bushing kits from Australia, these pivots will run smoothly and you'll never have to grease them again! The Aricks seals for the firming & closing pivots have a Teflon coating on the seal contact lip and are designed to run dry, unlike a competitor product from USA—and these Aricks kits have an 12-year track record to prove their durability and trouble-free nature. The bushings themselves are fiber-wound Teflon impregnated, and the steel sleeve has a hardened chrome finish, for smooth action, and proven to last at least as long as OEM (significantly longer in some conditions). These kits are hugely popular in Australia.

**Note: On 50-series (except earliest 750s), the firming arm has a pin welded in—this must be removed and a hole drilled in the arm at that spot, and requires a 50-series bushing kit as the sleeve length is longer than the 60/90-series.*

Update!

The seals now have a heavy duty steel outer edge with a Teflon lipped seal.

remove

install

Aricks firming arm kit (sleeve, bushings, seals) JD 50*/60/90	**$35.00**
Aricks closing arm kit (sleeve, bushings, seals) JD 50*/60/90	**$35.00**
Special washer and nut, closing rebuild (both grade 8)	**$4.68**
Install tool for firming & closing kits	**$20.00**
Removal tool for firming & closing kits	**$20.00**

The main pin & bushings at the front of the opener on JD 50/60/90 drills (where the arm attaches to the rockshaft) is another wear item, and it's critical to maintain furrow width. As these wear, the furrow gets narrower and the boot and firming wheel no longer fit, thus seed placement is awful. Aricks' front pin kits have been in the field for 7 years. Aricks front pin bushings are steel with a Teflon inner layer, and the pin has a hard chrome finish.

Removal tools: manual & air hammer versions.

"I installed the bushing kits last spring and have not had one row give me any problems! I love not having to grease 104 fittings! Keeping the press arm and closing arm free of seizing up makes everything else work on these 90-series openers."

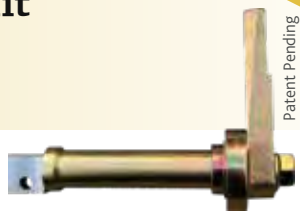
Kory Hastings, Great Falls, MT
Exapta customer since 2017
(JD 1895 43ft with a 1910TBH cart)

Main opener pin kit (pin, bushings) *JD 50/60/90 drills*	**~~$45.00~~, now $39.00**
Removal Tool: Main-Pin Bushings, Air Hammer *Kit includes stainless tube brush to clean out dirt & rust.*	**$60.20**
Removal Tool: Main-Pin Bushings, Manual Tool *Kit includes stainless tube brush to clean out dirt & rust; includes lubricant.*	**$166.42**

Prices subject to change.

Non-greasing Gauge Wheel Axle Kit

Makes your disc opener greaseless!
Axles won't seize • Holds cast arms tight



Depth adjustment axle

The gauge wheel axle kit from Aricks is the final piece in making your disc opener completely non-greasable! Gauge wheel depth adjustment, via the axle rotation, is a common point for seizing on the JD 90 & Pro-series openers. In dry, dusty conditions, grease and dirt pack together, becoming rock-hard, inhibiting rotation of the axle and rendering the depth adjustment arm useless. These new axles won't seize, allowing for smooth operation of the depth adjustment arm.

Gauge Wheel Axle Kit complete with axle, spindle and seal.

Farmers face enormous difficulties trying to unseize their axles in order to adjust seed depth. Most resort to removing the entire disc opener and placing it in a hydraulic press to force out the seized axles.

Another issue is once these cast arms get a little movement in the connection to the gauge wheel axle, it is very difficult to keep them tight. Now those worn cast arms, combined with a new Aricks axle, will never become loose again. Sold as a kit to give you maximum flexibility in replacing several components at once.

No need to replace worn depth adjustment arms with the new solid axle shaft.

Uses high quality bushing material in the axle spindle and an extremely effective, durable seal to keep the axle shaft dust-free and running smoothly for many acres to come. The solid axle shaft attachment point has been beefed up for greater surface contact, allowing you to reuse the worn depth adjustment arms, for even more savings.

"I put the Greaseless Depth Axles on in 2020 and I've had zero problems after 10,000 acres. Everybody needs to go that way. They are a great product and well worth the investment. I also put on the Cover Plates & T-Handles and love those. They're awesome."

Caleb Nine, Lavern, OK • Exapta customer since 2018 (cover plates, depth axles, FDN blades, DuraLoks, Main pins on a JD 1890 drill, 50 openers)

Heavy-duty Cover Plates & 'T' Handles

Solid straight lugs won't wear/break like OEM pins
2x thickness of OEM • 'T' handle won't stick or jam
Straight-across depth selection for easy adjusting
Same depth increments as OEM

A durable, logical replacement for the light-duty, inferior criss-cross depth adjuster that rattles and wears out. A robust cover plate and 'T' handle improves reliability and reduces maintenance costs. A much-needed redesign of the traditional diagonal slotting for a simpler, heavy-duty system that will withstand tough conditions better than the OEM.

Heavy-duty Cover Plates *(for 60/90 series only)*	**$35.00**
Heavy-duty 'T' Handles *(for 60/90 series only)*	**$35.00**
Gauge Wheel Axle, *right or left (for 60/90 series only)*	**$156.31**

Prices subject to change.

The **new T44 wheel** updates include a zinc plate finish and a bolt on star wheel. The wheel uses 4 bolts to attach it to the spindle so when you wear down the wheel in the future, you can just purchase the star, and not have to buy the whole assembly. You'll spend far less money to replace a worn out Thompson wheel in the future with the new replaceable star.

Thompson closing wheels are an excellent upgrade for JD 50/60/90/Pro-series drills, and bolt easily onto the original closing arms. The OEM 50/60/90 cast closing wheels on the Deere drills have a ridiculous tendency to hop because of their weight and smoothness, and the angle of the arm's pivoting, and really hammer the soil when they land after being airborne. Even when running smoothly with low spring pressure, heavy cast closing wheels tend to seriously over-pack the soil, reducing emergence and early growth. Thompson wheels completely avoid the problem, since they weigh far less than JD and certain aftermarket wheels, and actively pull themselves into the soil.

"Thompson wheels close so much better that OEM cast wheels, especially in heavy residue. We had some really tall soybeans this year that left a mat of residue behind the combine. **The Thompsons did a great job of closing the seed slot!"**

Chad Huffman, Cunnigham, KS • Exapta customer since 2019 (T-wheels on JD 1890)

"We have 2 - 40' JD 1890 Air Seeders. One with Thompson wheels and one without. **We had great stands on beans this year from the drill with Thompsons. We ordered T-wheels for the other one because the stands were noticeably poorer due to crusting from the solid wheels."**

Craig & Rodney Doane, Downs, KS • Exapta customer since 2014 (Ninjas, DuraLoks, T-whls, main pins)

"I'm running the Thompson closing wheels on my Deere XP planter. Initially I ran the standard closing wheels and then a competitors curve tine closing wheel. The curve tines dug out rocks and we were not pleased with the way they also dug out corn seeds. **The Thompsons have none of those issues and work in all conditions, wet or dry."**

Cole Holubec, Melvin, TX • Exapta customer since 2020 (Thompson Wheels on John Deere XP planter)

"We had much better stands on the back rows where the new Thompson wheels were installed. We were able to drill beans in soil where the front rank (without T-wheels) were not getting closed. They were a big improvement in our double crop soybeans. I've been happy with all the products from Exapta."

Ben Stork, Waterloo, IL • Exapta customer since 2019 (1500 acres so far on NEW replaceable Thompson wheels on 30' JD 1990 CCS)

Prices subject to change.

Thompson closing for gauge-wheel drills

Zinc plate finish
Bolt-on star wheel = cost-effective replacement stars
Aggressive furrow closing with self-limiting depth
Low mud and stalk accumulation
Same, proven spoke design, durable and trouble-free, we've used for 20 years
Creates ideal zone for crop emergence & rooting in a wide array of conditions
Heavy-duty bearing with 5-year warranty (on bearing-type wheels)

"The Thompson wheel is doing very well. I've had a couple of neighbors and the rep from my seed company look at the field after planting, and they were really very impressed with the seed coverage. I have an older JD 750, but I rebuilt the entire lower end. Your Thompson wheels were the icing on the cake. Performs better than new. Thanks again!"

Tom Faitz, Swansea, IL • Exapta customer since 2018 (Thompson wheels on JD 750 drill)

The new T32 wheel updates solves the problem of the bearing issues with 50-series drills. Also, the Thompson wheel has proven durability: High-carbon steel, a truly robust bearing with a triple-lip seal, and our exclusive steel shroud for superior bearing protection—plus, our 5-year warranty on the bearing. Includes a zinc plate finish and a bolt-on star wheel.

The closing action on the Case Precision 500 / New Holland P-2080 is rather pitiful in long-term no-till with their smooth packer wheel. Exapta's closing bracket is the ideal upgrade in allowing our Thompson T32 to be ran at a 7-degree toe-out, along with lighter spring pressure. Avoid stand failures! Do firming and closing as separate steps, and do them well. (T-whls are a good option for Case *SDX* drills with seed-lock wheels installed.)

"I love the Thompson Wheels! They work great! **They crumble the sidewall, no sidewall compaction. The wheat comes up faster on the back rank (with T-wheels) then the front rank with the OEM rubber wheels. Definitely does a better job of closing the seed trench!"**

Jonathan Quin, Kennedyville, MD • Exapta customer since 2019 (Exapta upgrade: T-wheels, Keetons & Mojos on back rank 30' Case P-500 drill 7.5")

Improved!

Thompson wheel T44 **$94.00**
Tougher than ever, zinc plate finish. (with stub shaft, for JD 60, 90 & Pro-series drills)
Thompson wheel T32 **$145.00**
(with 5/8" bolt or metric spindle, for JD 50-series, Case SDX, P500 & NH2080)
Bracket kit for T-wheels, Case P-500/NH 2080 drill **$78.00**

Prices subject to change.

Recon Blockage Plus

Tower-to-tower flow variance and blockage detection • Reliable connectivity
Adaptable to any system • Simple to install & easy to use
Redesigned ECU to utilize the latest digital microphone technology

Be proactive—catch drill problems while they're happening! If you've ever been sickened to find out your drill wasn't seeding or fertilizing for part of each swath across a field, or the entire season, you know firsthand why monitoring product flow is so important.

Real-time blockage detection and seed delivery diagnosis is the only way to ensure seeding accuracy. Recon Blockage Plus™, the next generation of reliable flow monitoring technology, is the industry's only acoustic blockage monitoring system designed to improve precision in every pass. Upgraded with a wired connection to the ECU for improved connectivity, the Recon Blockage Plus acoustic sensor detects blockages and reduced seed flow instantly— preventing skips and increasing yield. Unlike traditional optical sensors, you can depend on patented acoustic sensors for accurate readings even if the sensors are dirty. **No more skips!**

"**It saved me this year when I had a fertilizer blockage issue.** My old system wouldn't have told me there was a problem because I was still putting on seed."

Micah Tice, Beloit, KS
Exapta customer since 2016
(Intelligent Ag blockage system on 42' JD 1890)

"**This system paid for itself within the first day.** My seed had a blockage at the air cart that fed two secondary towers, while fertilizer was still passing thru. Half my drill was not seeding. With the OEM sensors, I wouldn't have known there was a problem because it could not distinguish seed and fertilizer. With Intelligent Ag, I instantly knew something wasn't right. I saved thousands of dollars, not to mention my time of re-seeding!"

Circle C Ranch, Lance Coker, Shawnee, OK • Exapta customer since 2018 (JD 1890 30ft on 7.5")

"Got a full day of planting in yesterday. **To say I am happy with the blockage monitoring system is an understatement!** Great product. Thanks to Exapta for offering it."

Cody Fischer, Hooker, OK
Exapta customer since 2014,
(40' JD 1890)

Intelligent Ag monitoring system *(iPad not included)*
Any number of rows up to 156 is possible & 20 primaries.
Not compatible with box drills.

Financing Available! Call for terms.

Case P-500 Upgrades

Mojo Wires for drill Keetons

Most grain drills (except JD 50/60/90s, and some SDX drills) completely lack an *in-furrow* seed-firming mechanism to apply a small but consistent pressure directly onto the seed *at the seed's location* in the bottom of the furrow. Instead, these drills use trailing packer or 'press' wheels that run on the soil surface to compress all the soil above the seed to try to obtain sufficient seed/soil contact. As with planters, this method is problematic in the more structured soils of no-till cropping, and often causes mediocre to poor emergence if it doesn't rain right away. Hence, many farmers install Keetons on these drills, which help, but often don't have enough pressure.

So we've adapted our highly successful Mojo Wire to fit Keetons for grain drills (the Mojo does require a specially milled Ktn tail from Exapta). By applying 2x to 5x more pressure onto the Keeton with the Mojo, the Keeton will wear out faster—but at least it's doing some good at that point! It's important to do consistent seed firming *at the seed's location*—and sometimes this is the difference between achieving a decent stand, or not.

"This stuff works awesome. I've got the PolyFlex, T-whls, Keetons + Mojos—it's working great! Drilling beans right now, the seed is in there nice and covered up beautiful. We're in wheat stubble, corn stalks & conventional. Heck, it's doing great. **[Update, Post Emergence] After doing stand counts, I am truly impressed. It's honestly how this seeder should be equipped from the factory. I was able to reduce my seed population by 10%. Incredible seed savings."**

Tyler Miller, Bucyrus, OH, Exapta customer since 2020 (Case P500 30' with P500 conversion T-whls, Keeton/Mojo & PolyFlex

Atom-Jet Firming Wheel

New from Atom-Jet: their Firming Wheel is another option for these drills, allowing for the benefits of a trailing packer tire as well as in-furrow packing directly on the seed. The firming wheel presses seeds down into the bottom of the furrow to give consistent seeding depth.

This firmer uses existing locations on the shank to mount with no modifications needed and fits directly behind the scraper and ahead of the packer tire. The UHMW material used in the firming wheel itself helps to shed any soil that sticks to it ensuring that the unit does not build up and stop turning. A 12lb spring pushes down with enough force to gently press the seeds into the bottom of the furrow.

Atom-Jet seed boot/scraper

Keetons for drills (and GP twin-row planters) *Depending on drill brand/model (some contain extra hardware).*	**$27.50 – 35.50**
Mojo for drill Keeton *Requires specially-milled Keeton.*	**$13.00**
Steel bracket for Keeton on Case P-500/NH 2080 drill	**$10.75 ea**
Thompson wheel T32 *(with 5/8" bolt or metric spindle, SDX, P500 & NH2080)*	**$145.00**
Bracket kit for T-wheels, Case P-500/NH 2080 drill	**$78.00**
Atom-Jet firming wheel *(right or left)*	**$220.00 ea**
Atom-Jet seed boot/scraper *(Case P-500/NH 2080, right or left)*	**$132.00 ea** NEW

Prices subject to change.

Shop for Exapta products online

For these items *and more*, visit www.exapta.com

Closing bracket & T-handle **$64.95**

 # PLT120730, # PLT120740. Updates JD 7000, 7200 to bolt-on closing wheel configuration. Spring not included. Also available in black.

Keeton, Quick Attach **Tail $20.00, Bracket $20.00**

The best choice for most planters including JD 7000 thru XP, JD MaxEmerge 5, Kinze 2000s & 3000s (non-EdgeVac prior to 2013). White 9000 uses slightly different bracket, same style. Compatible with Speed Tubes on these planter models. QA brackets are much sturdier and easier to install than Universals. Single liquid tube goes all the way through tail. We highly recommend Quick Attach over the Universals.
QA Keeton w/bracket (for JD) #10945 $40; Bracket only #KTN15019; QA tail only #140045.

Keeton, QA bracket for ExactEmerge **$90.00**

Quick Attach Keeton for John Deere ExactEmerge row units. Design allows the tail to be snapped into place and be changed without removing seed openers or gauge wheels. Kit includes green tail piece extension, bracket and tail with single liquid tube. Will move the closing system 5.4" rearward.
#KTN141180 Keeton QA for Exactemerge, bracket only $70.00
QA Tail only #140045 $20.00

Keeton, QA Scraper-Mount **Tail $20.00, Bracket $28.00**

Quick Attach, but uses the scraper mounting holes (not compatible w/ rotary scrapers, nor Air Design). The only model that fits Kinze 4900. Also for Kinze 3000-series with oversize seed tubes (2013 & newer; EdgeVacs prior to 2013). We recommend the standard QA (wrap-around) whenever possible.
New design (no hole-drilling required).
QA Keeton w/Scraper mount bracket for Kinze 3000/4000 #110045 $48
Bracket only #KTN1500130; QA Tail only #140045

Keeton, dual-tube w/ Universal bracket **$34.00**

#KTN115011 Recommended for White 6000s & 8000s, since QA doesn't fit these planters. Brackets now pre-cut by Exapta for full Mojo compatibility & fast install. Also available with Dry tails. Univ. brkt fits Deere 7000s thru MaxEmerge 5 (except ExactEmerge), Kinze 2000s & 3000s, White 9000s although we strongly recommend Quick Attach for these.

Dual-tube or Dry replacement tail *#KTN115013 (No bracket)* **$29.00**

#KTN131500 Bracket only $10.50

Mojo Wire kit, Liquid/Dry, for "Quick Attach" Keeton **$19.00**

K.315 Liquid-ready. Now with torsion loops for more pressure and longer life. Reinforcement tab now included.

Mojo Wire kit, Dry Keeton tails for
Universal wrap-around & Universal Scraper-Mount **$11.00**
(planters) #K.212 *Streamlined for better residue flow.*

Mojo Wire kit, Liquid Keeton tails for
Universal wrap-around & Universal Scraper-Mount **$20.00**
#K.211 *Fits dual-tube tails *Do not use on Low-Profile tails.**

Gauge-wheel bearing **$12.26**

 # M.4887. KYY double-row ball bearing: fits gauge wheels on many planters (JD '92 & newer, Kinze '93 & newer, White 6000-9000), gauge wheels on drills (JD 50/60/90 & Case P-500), and closing arm on JD 60 & 90-series drills.

Stainless Seed Tubes NEW *straights* **$42.50** *rights & lefts* **$47.50**

Stainless steel for far less corrosion in this area. If you've ever replaced tubes or boots that have corroded, you know how impossible they are to reuse.
Comes with stainless steel bolt to attach to seed boot and a SS hose clamp for easy attach/removal of secondary hose (no more fighting hose barbs to remove hose)! Available in Front Right, Front Left and Rear Seed Tubes.

Weight Brackets for JD 50/60/90 air drills **$1972.00 /pair**

All hardware included Our brackets are for the wing transport wheels on 3-section drills, where those wheel frames are attached with bolts. Holds up to 12 JD suitcase weights per bracket. For air cart drills. May not be compatible with all CCS drills. Call to speak with one of our specialists.

Weights *Free shipping for 10 or more. LS200, 201 & 202* **$137.33**

Aricks depth control arms **$53.33**

High Tensile casting. The High Tensile stud is up-sized for added strength where the stud leaves the casting. Right or left arms, #ARI DC3L/R.

Toe-out wedge **$6.50**

JD 1700 (all), White 6000 thru 9000; Kinze 3000 & 4000 closing brackets.

Closing bracket spring **$9.50**

Now with higher quality wire to prevent stretching and breaking.
(Replaces OEM heavy spring)

Replacement hub/star *#M.4501z* **$107.00**

For T2 or T3 owners, this hub/star (with bearing and snap-ring installed) is a replacement for worn-out wheels. Not included: shroud, sleeve, or dustcap.

Coil Spring for CIH P500/NH2080 **$5.81**

#C4300. 20% stronger. Reduces boot/scraper plugging.

Steel bracket, Keeton on Case P-500/NH 2080 drill **$10.75**

#C.101L/R. *(each)*

Bracket kit for T-wheels, Case P-500/NH 2080 drill **$78.00**

#C.201L/R. Bracket to hold Thompson wheels at correct position & angle (creates 7° toe-out) to replace packer wheel. For use only in conjunction with Keetons (see above), since the T-wheel does no packing. Also included is a lighter torsion spring for the closing arm. The only closing option for these drills that allows full-length liquid Keetons to be used.

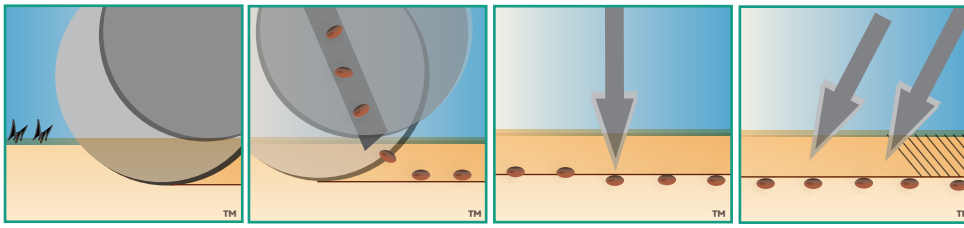
SeedVU for late-model air drills **$215.00 – $305.00**

Adjustable air diffuser/venting unit. Easy, fast installation (no modifications needed). Fits late model JD outlet heads with twist on lid, late model Case/NH heads, Smallaire conversion heads and more. (Does not fit JD flat top heads with J bolts. Consider updating those to the Smallaire heads) See p 17 for details. Sale: Flexicoil head $215.00

Smallaire conversion heads **$199.00 – 351.00**

Available from 3-16 outlets. Smart upgrade for older JD with J bolt heads. Unique curved design evenly distributes seed to Secondary outlets (no flat spots for seed to deadhead against). Compatible with SeedVU. Zinc plated and powder coated paint.

Fundamentals of seed placement



1 **Cut** residue & soil to create the furrow of the proper depth ™

2 **Place** the seeds consistently into the bottom of the furrow ™

3 **Firm** the seeds by applying the right amount of pressure exactly where it's needed ™

4 **Close** the furrow by chopping the sidewall, to prevent drying and allow good root exploration ™

Vigorous crops depend on you. In addition to controlling depth and spacing, *your seeding equipment determines the uniformity of seed-to-soil contact and the condition of the soil placed over the seed.* These influence the rate of air and water exchange during germination and early growth, as well as the resistance the seedling encounters during emergence and while developing roots.

Emergence, early growth, yield, and profit all hinge on proper seed placement—seeds are pressed (embedded) into the moist furrow bottom at a consistent depth, and the furrow sidewalls are shattered to cover seeds uniformly with loose fractured soil. With the seed securely firmed into the surrounding soil, it draws moisture easily for germination and establishment. Mulch cover prevents drying out of the seed zone prematurely. The Exapta No-till Planting System accomplishes these things most effectively. Read more by visiting www.exapta.com/working-knowledge/no-till-seed-placement

About the Matt Hagny No-Till Scholarship Foundation

Our mission is to provide experiences and learning opportunities to those interested in traveling to further their education about no-till farming practices. We see the world as bigger than us. We seek to follow Matt Hagny's example, as he was a life-long learner, and a challenger of majority thinking, processes and practices. We strive to assist others on their journey of learning and growing. We recognize the value found in the combination of travel and study.

Check out Sam Ireland, our 2022 recipient's, findings on the benefits of intercropping and relay cropping, as well as the practicality for farmers to adapt these techniques. Watch at the link below!

For more information on the application process, or to make a donation, visit
www.exapta.com/matt-hagny-scholarship

The Matt Hagny No-Till Scholarship Foundation is an endowed fund managed by the Greater Salina Community Foundation, a qualified section 501(c)(3) organization.

Educational Products

Confused yet? Not sure where to start? Feeling intimidated? Relax, we can help.

"Great products that are field-tested, and knowledgeable support."

Steve Groff,
Cedar Meadow Farm,
Holtwood, PA
Exapta customer since '05

We encourage a systems approach, not all that different from the drivetrain on a truck or tractor. Which piece can be neglected? None. If you only replace the tires on the truck, but don't take care of the engine, you will have a lot of issues. Exapta products complement each other, giving you the advantage of the System. One part may not give you all the results you are hoping for. While the components of a truck or tractor were engineered to work together across a range of conditions, your seeding equipment was designed for *tilled* seedbeds. Which is why there is a need for modifications.

More questions? Instructions for all of our products can be found on our website. Or give us a call! Our knowledgeable crew serves up only straight answers, and can walk you through which items to tackle first—even if it's not our product. Our mission is to make sure you have the equipment and know-how for ultimate success in no-till seeding on your farm. For further reading, check out our free newsletters at exapta.com/newsletters.

No-till Seeding Explained™ DVD

- **Discussion of what the components & attachments should be doing (or not)**
- **Fertilizer drill or planter: Where, why, how, & trade-offs**
- **'Preparing' the seedbed at harvest of previous crop**
- **Carefully chosen photos, diagrams, & video clips**
- **Printed troubleshooting guide for in-field use**
- **No sales pitches, purely educational**

Narrated by the calm, reassuring voice of Ken Root, from a carefully honed script by Matt Hagny, this DVD is aimed at nurturing your understanding of the seed-installation process. We have tried in the utmost to be truthful and objective, and to deliver highly useful insights and tips. We sincerely want no-tillers to succeed, whether they buy any hardware from Exapta or not. (Our products are mentioned very briefly among a wider discussion of aftermarket suppliers & products.) Detailed narrative & visuals to guide you through everything from off-season overhauls of your planter & drill, to exact step-by-step adjustments in the field. Actual footage of Matt Hagny excavating seeds in furrows (both planters & drills); discussion of what good seed placement looks like, and why. Troubleshooting. Maintenance tips. Aftermarket upgrades. Seed vigor. Root growth. How uniform timing of emergence far outweighs uniform spacing for yield influence. For highly effective no-till seeding, this DVD has it covered.

No-till Seeding Explained™ DVD ~~$65.00~~ $40.00

While we cover no-till seeding in the broadest possible terms, specific recommendations given will apply primarily to the JD/Kinze/White planter design, and to the Deere 50/60/90-series single-disc gauge-wheel drills. Case SDX & Case Precision 500 / NH 2080 gauge-wheel drills are also discussed. (Once you see the explanation of the discrete actions required for proper no-till seed placement, you'll understand why we focus on certain models as being the top choices for no-till seeding in North America. Even if you do not yet own these seeder models, you will benefit from understanding no-till seeding better as explained in this comprehensive DVD.) Includes printed 10-step guide.

exapta solutions, inc.

2475 E Kansas Ave • McPherson, KS 67460

www.exapta.com

New: Stainless Seed Tubes *See p 29*

NEW

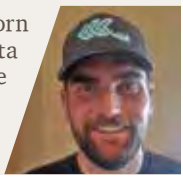
- **Ease of hose installation/ removal with new design**
- **Stainless steel for far less corrosion** (includes SS bolt to attach seed boot + SS hose clamp)

UniForce™

Hydraulic Downpressure

"We are very pleased with the UniForce system. We noticed **our openers run a lot smoother** through the ground, and no longer bounce as much. **The seed placement is excellent, and emergence has never been better** than the last two years. It's especially impressive with small-seeded crops. **All plants emerge at the same time, and we see that right through to harvest with very even maturity.** We have just experienced two drought years in a row. This past year [2018] was the worst in 18 years. **With the Exapta system (UniForce, Thompson wheels, DuraLoks, Ninjas, Ingersolls) on our drills, we seem to be seeing some yield advantage at harvest time."**

Chet Dykshoorn
Foremost, Alberta, Exapta customer since 2012 (UniForce on two 42' JD 1895s)



See pp 14–16.

Easy Access Location: Just east of I-135 on Hwy 56

US Patent No 8,978,564

Valion™ seed tube guard

- Prevent blade flex
- Avoid pinched furrows
- Get consistent seed depth
- 2x – 4x wear life of OEM

See pp 6-7

DuraLok™ seed-lock wheel

See p 21

Narrower for better seed firming and less sidewall compaction (easier to close the furrow). Urethane for exceptional wear-life.

Lower Price!

FREE SHIPPING

All orders over $2,500 ship free in the contiguous US!

Call today: 785-820-8000 *(Mon–Fri 8AM-5PM CST)*

Order online: exapta.com

Questions? Give us a shout. We serve up only straight answers.