

INTRODUCING ...

KINZE®

EDGEVAC™ SEED METERING



EDGEVAC™

FROM THE EDGE!

**Welcome to the leading edge
of vacuum seed metering!**

Accurate. Consistent. Simple. Reliable.

Meet the new, patented EdgeVac™ Seed Metering System from KINZE®. Designed for accuracy and precision seed spacing in many crops and across a broad range of seed sizes and shapes. *This is the new, patented design that*

- ... matches or exceeds the speed capabilities* of most vacuum meters, air meters or mechanical systems in the field today.
- ... gives you more consistent seed drop, especially on hillsides ... from the edge ... and "straight" into the seed tube.
- ... features a unique floating seed disc design that self-adjusts to accommodate changes in the sealing surfaces.
- ... and makes it easy — with fewer parts — to perform simple in-field adjustments.

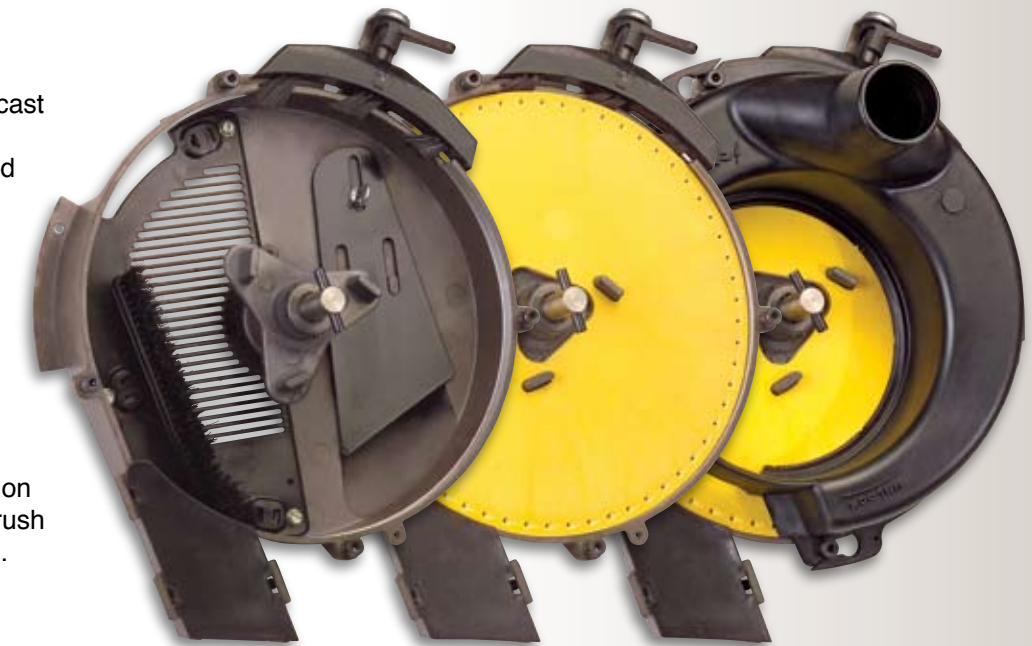
* Higher speeds cause more variation in seed placement and spacing, regardless of the metering system; so ground speeds exceeding 5.5 miles per hour are typically not recommended.

Discover the EdgeVac difference!

Check out the new EdgeVac Seed Metering System from KINZE. And start raising your expectations for seed metering accuracy today!

**Fewer moving parts!
Fewer maintenance issues!**

The meter housing? Tough, die-cast anodized aluminum. A wall vent provides access to outside air and a brush segregates the seed reservoir from the seed release area. Changing discs is quick and easy. To remove the disc, all you do is slightly rotate the vacuum cover. No extra parts are necessary to retain the disc. A simple, spring-loaded adjustable lever (external, top of meter) "fine-tunes" seed singulation by providing eleven different brush settings for aggressiveness.



KINZE® EdgeVac™ Seed Metering is now available on many KINZE planters, including KINZE Twin-Line® Planters with the patented Interplant® System. The initial offering for 2006 includes 3110 and 3140 Three Point Mounted models and 3500, 3600, 3650 Bulk Fill or 3650 Conventional Twin-Line® Planters, in sizes from 6 Row 30" to 16 Row 30"; for Interplant® Package-equipped Twin-Line® Planters, 11 Row 15" to 32 Row 15".



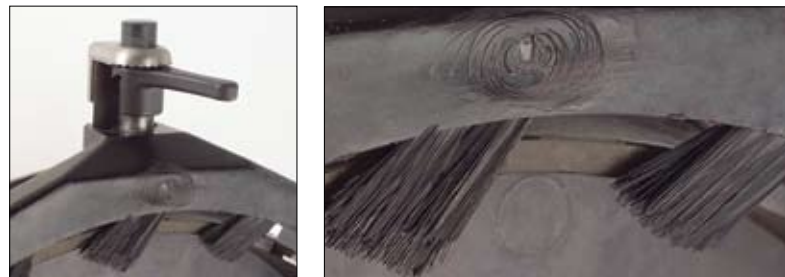
**The KINZE "Evolution Series"
Row Unit handles mechanical or
EdgeVac seed metering systems.**

And, it's one of the strongest precision-built row units in the field. A dual mounting location is provided for the drive clutch which allows the row unit to accommodate either finger pickup and brush-type "mechanical" seed meters or the larger EdgeVac "vacuum" seed meters. The convenient quick-disconnect clutch allows easy disengagement of individual rows. Seed hopper capacity is 1.75 bu. for EdgeVac versus 1.9 bu. for mechanical. Specially-shaped hopper bottoms ensure exceptional seed clean-out.

THE DIFFERENCE :

» **Seed Disc Size**
 Large 10½"-diameter seed discs accommodate more seed pockets around the perimeter of the disc, which reduces the operating RPM of the meter. It also means there's a greater number of seed pockets (*at any given time*) in the seed reservoir for more consistent seed pocket fill. The seed pocket design assists seed fill by effectively agitating the seed. Color-coded seed discs are molded from long-lasting, engineering-grade urethane which is resistant to seed treatment buildup.

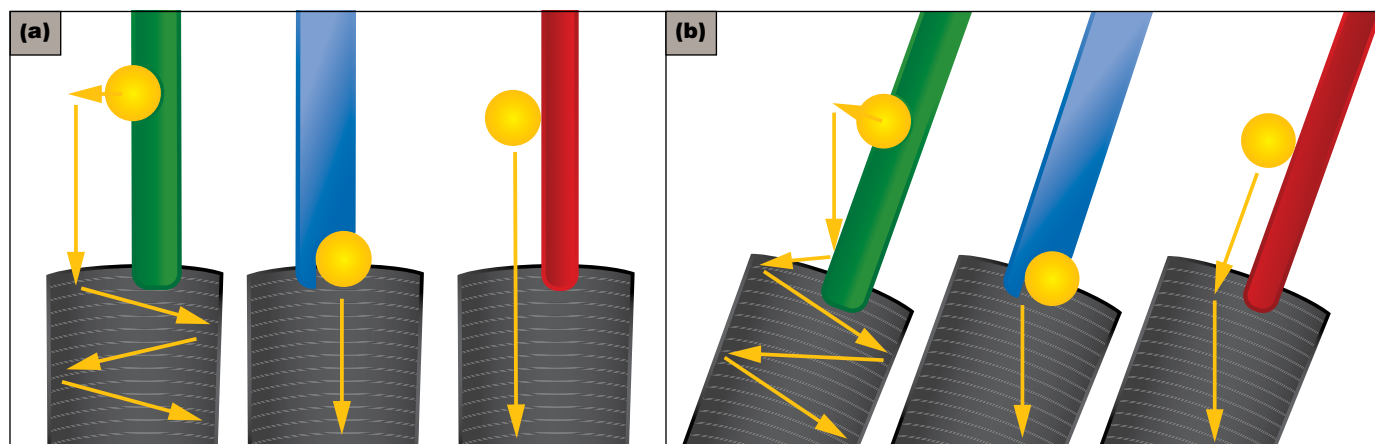
» **Seed Singulation**
 Adjustable seed singulator brushes sweep away potential doubles or triples. Settings (for brush aggressiveness) are easy to change simply by turning an external spring-loaded lever. Initial start points are provided for each crop and seed disc for setting vacuum levels and the aggressiveness of the singulator brush.



» Consistent Seed Release

The unique "edge-drop" design of the EdgeVac Seed Meter provides accurate seed singulation for multiple crops and many seed sizes and shapes. The "edge-drop" design always releases seed centered in the seed drop tube. This minimizes the tumbling action or

ricochet effect inside the tube and ensures better seed spacing because of consistent seed drop. Tumbling and ricochet problems are more common in competitive designs, because seeds can be released erratically from the uphill side of the seed plates.



(a) In this illustration, (*showing planting on flat terrain*) the seed on the left disc must negotiate a 90° turn before it descends into the seed tube. Note how the "ricochet effect" tends to create problems in the consistency of seed spacing (*and may even exaggerate it in rougher conditions*) as the seed drops through the seed tube. Even when compared to the design on the right, the KINZE EdgeVac more consistently releases the seed centered in the seed tube.

(b) Illustration "b" shows an exaggerated rear view of the planter operating on a sidehill, with the left side of the planter uphill. Note how the seed on the left plate design still has to make a 90° turn — even as it continues to be supported by the seed pocket — before finally descending into the seed tube. The result: inconsistent seed drop. That's why KINZE releases it "from the edge!"

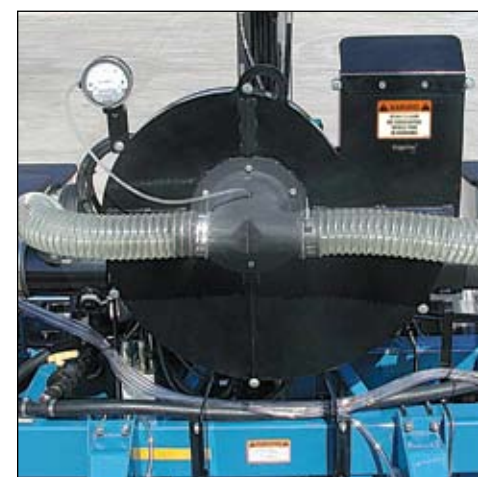
» **Exclusive Floating Seed Disc Design**
 Note the open-center, non-concentric design of the vacuum cover. Over time, most competitive vacuum meters will wear a groove pattern in the seed disc, because they're always turning in the same circular pattern against a sealing surface. The KINZE design substantially reduces wear, because the pattern is constantly changing and self-adjusting. As a result, the EdgeVac Seed Meter, with its "floating disc" design, creates a consistently tight vacuum seal ... without worrying about friction or excess wear between the vacuum cover and seed disc ... or maintaining extra meter parts, such as vacuum seals or spools. In fact, since the EdgeVac Seed Meter vacuum cover captures the disc, you don't have to contend with any additional disc retaining devices!



» **Fewer Parts to Maintain**
 No retaining devices! No vacuum seals! No spools! Slotted key hole-shaped mounting slots in the vacuum covers make the covers easy to remove, and the seed discs simple to change.
 The plastic composition of the engineering-grade urethane vacuum cover closely matches that of the discs, which — in addition to the floating disc design — promotes self-cleaning action between the cover and disc, while limiting the amount of friction and wear.



» **Factory-Assembled Vacuum Distribution Systems**
 Hoses, manifolds, mounting positions for the fan assembly and hose routings are customized for each planter model. Molded plastic or steel manifolds are fed by 4" wire-reinforced hoses from a centrally-mounted fan. 2" hoses feed vacuum to the individual rows. Convenient storage locations are provided to plug vacuum to Interplant System rows when planting standard row widths.



One 20" diameter vacuum fan handles up to 16 rows of corn ... or 32 rows of soybeans. The fan impeller is precision-manufactured and robotically welded for maximum quality control. Fabricated aluminum construction ensures maximum airflow without the added weight and inertia of cast impellers. Approximate hydraulic requirement is 13 GPM @ 2,000 PSI. One SCV outlet and one low-pressure case drain connection are required to operate the system.

COMPARE!

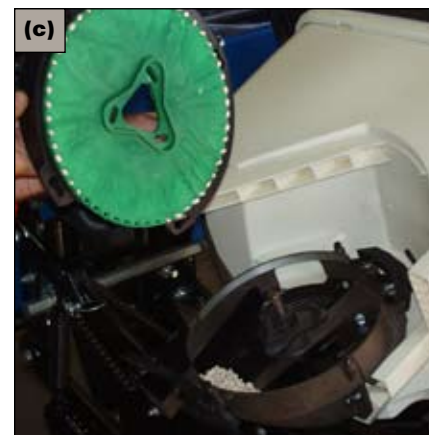
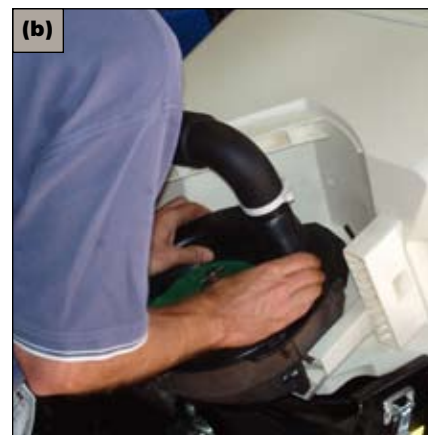
» Compare Performance!

EdgeVac — the *LEADING EDGE* alternative metering system to mechanical, air and competitive vacuum systems. Every disc features a unique seed pocket design that agitates and secures the seed for more consistent seed pocket fill. Even the high-quality, engineering-grade composition of the discs is significantly different from other competitive designs. Simply stated, they're a heavier disc and much more rigid.



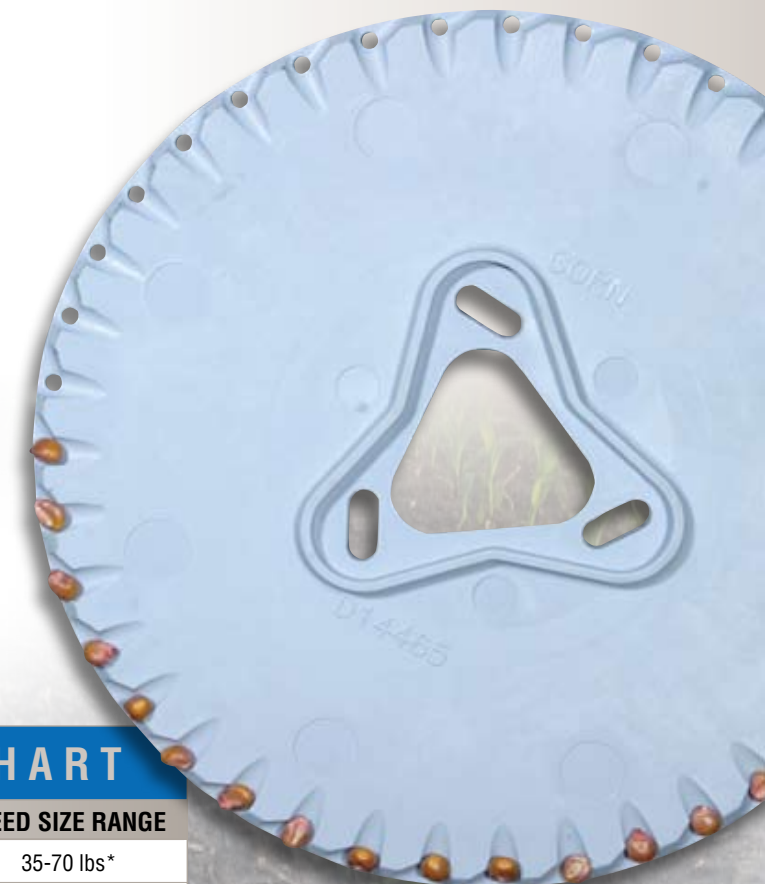
» Compare Adjustments and Maintenance!

The KINZE EdgeVac Seed Meter features a very simple design with a much lower part count than other competitive meters. As a result, inspection and adjustments are faster and easier, and the meter costs less to maintain. Want to see how it's working? You can actually remove the vacuum cover and seed disc as an assembly, with the vacuum system on, to inspect your seed discs for proper seed fill. *(Try that with any other vacuum meter in the field today!)*



» Selection and Flexibility

Consider seed corn, for example. With just one seed corn disc, virtually every seed size and shape from small flats to large rounds (35-70 lbs. per 80,000 kernel count unit) can be handled. So, now you can select specific genetics without worrying about seed size (or paying a premium for specific sizes.) The new EdgeVac Seed Meter is offered with several disc options to handle a wide range of crops and seed sizes (corn, soybeans, acid-delinted cotton, milo/grain sorghum and dry edible beans); and additional discs are currently in development. Changing the discs is quick and easy, by slightly rotating and removing the vacuum cover.



EDGEVAC™ SEED DISC CHART

CROP	COLOR	CELLS	SEED SIZE RANGE
CORN	LIGHT BLUE	39	35-70 lbs*
SOYBEAN	BLACK	60	2200-4000 seeds/lb
SOYBEAN, HIGH-RATE	DARK BLUE	120	2200-4000 seeds/lb
MILO/GRAIN SORGHUM	YELLOW	60	10,000-20,000 seeds/lb
DRY EDIBLE BEAN, SMALL	DARK GREEN	54	1200-2500 seeds/lb
DRY EDIBLE BEAN, LARGE	TAN	54	800-1200 seeds/lb
COTTON, ACID-DELINTED	WHITE	54	4200-5200 seeds/lb
LARGE COTTON, ACID-DELINTED	DARK GREEN	54	3800-4400 seeds/lb

* per 80,000 kernel count unit



CORN

SOYBEAN

HIGH-RATE SOYBEAN

MILO/GRAIN SORGHUM

LARGE DRY EDIBLE BEAN

COTTON, ACID-DELINTED

LARGE COTTON, ACID-DELINTED or SMALL DRY EDIBLE BEAN



KINZE® EdgeVac™ Seed Meters match or exceed speed capabilities

of other vacuum meters, air meters or mechanical systems. KINZE Planters with EdgeVac Seed Meters are designed to operate within a speed range of 2 to 8 miles per hour. *(Higher speeds cause more variation in seed placement and spacing, regardless of the metering system you're using; so ground speeds exceeding 5.5 miles per hour are typically not recommended.)*

2006 EDGEVAC™ AVAILABILITY CHART

MODELS	6 Row N (30")	6 Row W (36" - 40")	8 Row N (30")	8 Row W (36" - 38")	8 Row W (36" - 40")	8 Row W (38" - 40")	12 Row N (30")	12 Row W (36" - 38")	12 Row W (38" - 40")	16 Row N (30")
3110	■	■	■		■					
3140						■	■	■	■	■
3500	■ ★		■ ★							
3600				■ ★			■ ★	■ ★		■ ★
3650 BULK FILL							■ ★			■ ★
3650 CONVENTIONAL							■ ★			■ ★

★ Available with Solid Row Interplant® Packages and Even-Row Push Row Units for 15" row spacings

