



FAST AG SOLUTIONS
**LIQUID FERTILIZER
APPLICATORS**

PLACE YOUR NITROGEN **IN THE GROUND**

FAST DESIGNED
BY FARMERS | FOR FARMERS



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Founded in 1990 by Verlyn Fast, a farmer seeking to increase the productivity of his own operations, Fast's mission is to provide quality products at competitive prices, backed by dependable service. Today, Fast represents farmers and engineers coming together to produce high quality sprayer and liquid fertilizer equipment that is both practical and productive. Our welders, fabricators, assemblers, and painters are skilled craftsmen who take pride in their work.

We realize how important it is for today's farmers to continue to become more efficient and profitable, so our equipment is designed and built to make your job quick, accurate, and safe. Your investment in Fast equipment will pay dividends for years to come.

Our goal at Fast is to make you a life-long customer, one piece of equipment at a time.

INDEPENDENT NITROGEN TIMING SUMMARY

100% PREPLANT NITROGEN VS. V3-V6 SIDEDRESS

FAMILY OWNED & OPERATED

In 2020, the Fast family, including Verlyn Fast and his son Cody Fast, invested back into Fast Ag Solutions, along with an investment team that has a significant background in agriculture. The Fast family also farms corn and soybeans in southwest MN which provides an opportunity to run Fast equipment on their own farm to test new concepts/technology and fine-tune the design. One hundred percent of the manufacturing is performed in Windom, MN, with the original manufacturing facility in Mt. Lake, MN serving as a Parts Retail and Service location. Fast also operates a Parts Retail and Service location in Gilman, IL to better serve our customers in the eastern corn belt.

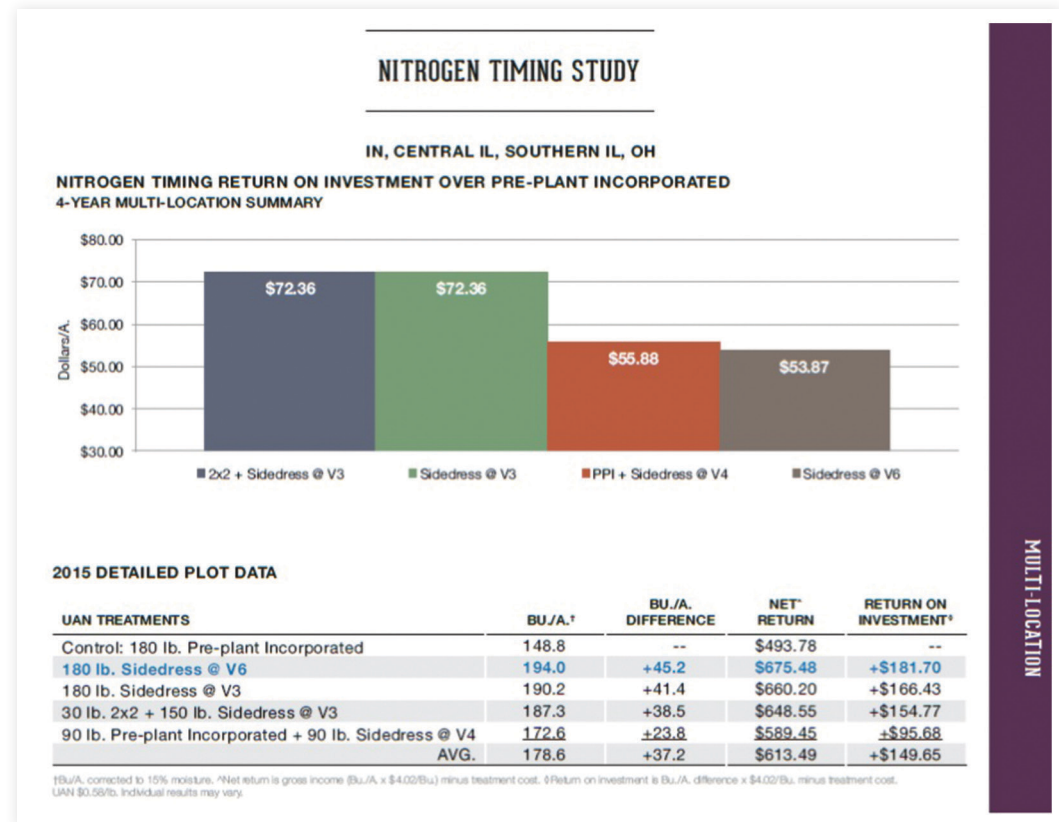
QUALITY DESIGN

Over the years Fast has continued to invest in equipment to increase the automation and consistency of our manufacturing process to provide high quality machinery for farmers. Our manufacturing facility currently utilizes flat laser tables, a tube laser, a robotic welding cell, multiple press brakes, and an automated powder coat paint system.

Four Locations, Four Years: Average Additional Income of \$63.62/acre for V3-V6 Side-Dress

The following study was conducted by Beck's Hybrids as part of their Beck's 2015 Practical Farm Research Book, with a stated mission to "Our mission is to provide you with the best farmer focused research and advisors to add profitability to the farm."

The results below show a combination of 2015 results from their research plots as well as historical data since we all know that one year of data does not always repeat itself but over 3-4 years the best methods tend to prove themselves out. As you can see below, they have proven a significant advantage to side-dress with coulter injection from V3-V6 time period. Consistently, we can see that this application method and timing either through split application or 100% early season side-dress (V3-V6) beats out 100% pre-plant nitrogen applications and also significantly out-performs late season side-dress application with high clearance equipment.



RESEARCH COURTESY OF BECK'S HYBRIDS
2015 PRACTICAL FARM RESEARCH BOOK

AGRONOMY BEHIND SIDE DRESS & SPLIT APPLICATION

Can you afford to take risks with your nitrogen?

There has been a lot of discussion on nitrogen timing and the best methods to apply nitrogen. The University of Missouri states it well, "The BMP for timing of nitrogen (N) fertilizer applications is to apply fertilizer as close as possible to the period of rapid crop uptake. Managing N in this way will minimize losses of N from the field and will ensure adequate N availability to the crop during critical growth periods."

In addition, the University of Purdue states that ear size is first determined at V5-V6; "Kernel row number determination of the uppermost ear begins shortly after the ear shoot is initiated (V5 to V6) and is thought to be complete as early as V8."

Therefore, we know that the primary goals of applying nitrogen is to apply it as close to when your crops need it as possible and also to apply it in a way that will minimize your risk of nitrogen loss to ensure nitrogen is in the soil, available for your crops when they need it.

First let's take a look at nitrogen timing

- If you apply all your nitrogen in the Fall you will have around 7 months from when you applied nitrogen to when your crops need it. This seems to be a big gamble and puts you at the mercy of weather to ensure that your nitrogen is still there and available in the Spring.
- If you apply all of your nitrogen pre-plant you have cut down on some of your risk of nitrogen loss but you are still applying 1-2 months before your crops need it so there is still some unnecessary risk of nitrogen loss through leaching.
- If you wait to apply a significant portion of your nitrogen until mid-summer right before the reproductive stage, you may not have all of your nitrogen needs met at V5-V6 when ear size is determined and you may have starved your crops during the early critical growth stages that give a baseline for future yield.

Therefore, early side dress strikes the perfect balance between applying your nitrogen just before it is needed by your crops and also ensuring that all of your crops nitrogen needs are met during the critical growth stages.

Next, let's take a look at nitrogen application methods, Dribble vs. Injection

The University of Purdue states that as much as 15-20% of surface applied urea-based nitrogen may volatilize (lost) within a week after application. They also stated that this risk is essentially zero if the product is injected into the soil.

If your nitrogen is applied on top of the soil you are relying on rain to take the nitrogen down to the roots where it is need for uptake. If we have a dry period in the summer, you are subjecting your nitrogen to significant risk of volatilization as it will convert into ammonia gas and escape into the atmosphere.

Our crops are dependent enough upon timely rain, why would we also build this into our Nitrogen Program? Inject your N with a Fast Applicator and minimize this risk!

The University of Purdue sums it up best by stating "One of the keys to managing costs of nitrogen fertilizer or maximizing nitrogen use efficiency is to manage N sources wisely to minimize the risk of nitrogen loss due to leaching, denitrification, or volatilization. The use of a side dress application strategy remains one of the easiest and least expensive ways to maximize nitrogen use efficiency."

Invest in your operations with a Fast Applicator to maximize your nitrogen investment and yield by providing a boost of N just before ear size is determined and also minimizing your risk of N Loss by injecting your Nitrogen IN THE GROUND rather than taking an unnecessary risk and dribbling it on top.

References

- University of Purdue - <https://www.agry.purdue.edu/ext/corn/news/timeless/CornRespLateSeasonN.html>
- University of Missouri - <http://plantsci.missouri.edu/nutrientmanagement/nitrogen/practices.htm>
- University of Purdue - <https://www.agry.purdue.edu/ext/corn/news/timeless/earsize.html>
- Montana State University - <http://store.msuextension.org/publications/AgandNaturalResources/EB0209.pdf>
- University of Purdue - <https://www.agry.purdue.edu/ext/pubs/2006NLossMechanisms.pdf>

FAST ACCURATE PLACEMENT "AP" COULTER



One of Fast's latest examples of innovation is our patented AP coulters designed to ensure that nitrogen is placed IN THE GROUND at a consistent depth and also provides industry-leading flexibility in how the coulters mount to the toolbar.

The AP coulters are made of three upper castings designed for long-term durability, a "hex" shank designed which allows the coulters to be offset in eight different positions, and increased stability to ensure a consistent coulters ride throughout varying soil conditions.

Cast Design = Durability/Stability

Fast utilizes a cast design because it allows our Engineers to properly reinforce the design wherever it is needed. The castings are designed to ensure the coulters ride stable through the field and does not deflect back nearly as much as our competition unless a rock or another object is hit which requires the coulters to deflect further. This minimal deflection is what provides Fast's more consistent nitrogen placement.

Unmatched Mounting Flexibility

Our "hex" shank design allows our toolbars to match up with nearly any row spacing that is desired without the use of additional offset shanks. The Fast AP coulters are also able to adjust how many degrees the coulters will swivel, with 0, 40, and 80 degree settings.

All of this adds up to a coulters that exceeds the needs you have on your farm to offer the long-term durability and exceptional performance that you expect from all Fast products.

FAST DESIGNED BY FARMERS | FOR FARMERS

All Fast equipment has been field-tested to be a durable design and is specifically designed to meet the needs to today's farmers. We have focused on providing toolbar flex and ride that is second to none, a short coupled trailer design to limit crop damage, and making the most out of today's technology to be compatible with ISO, prescriptions, and variable rate application. Most importantly, we focus on our quality and durability to ensure we will keep you running out in the field.



#1 – Industry Leading Toolbar Flex

Studies show there is an advantage to getting your fertilizer in the ground. Therefore, we have focused on maximizing your toolbar flex to ensure that your fertilizer investment is placed in the ground at a consistent depth through all types of terrain and soil conditions.



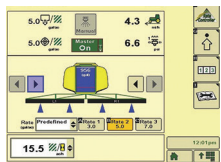
#2 – Active Hydraulic Downforce

To further ensure that your coulters stay in the ground at a consistent depth, Fast makes hydraulic downforce standard on all of its toolbars to effectively work through all types of soil conditions.



#3 – Hydraulic Wing Kick

Fast's hydraulic Wing Kick tilts the outer toolbars up when turning on the headlands to help ensure that the coulters don't dip into and damage your crops. This is a more dependable system than many of Fast's competitors and helps widen your application window.

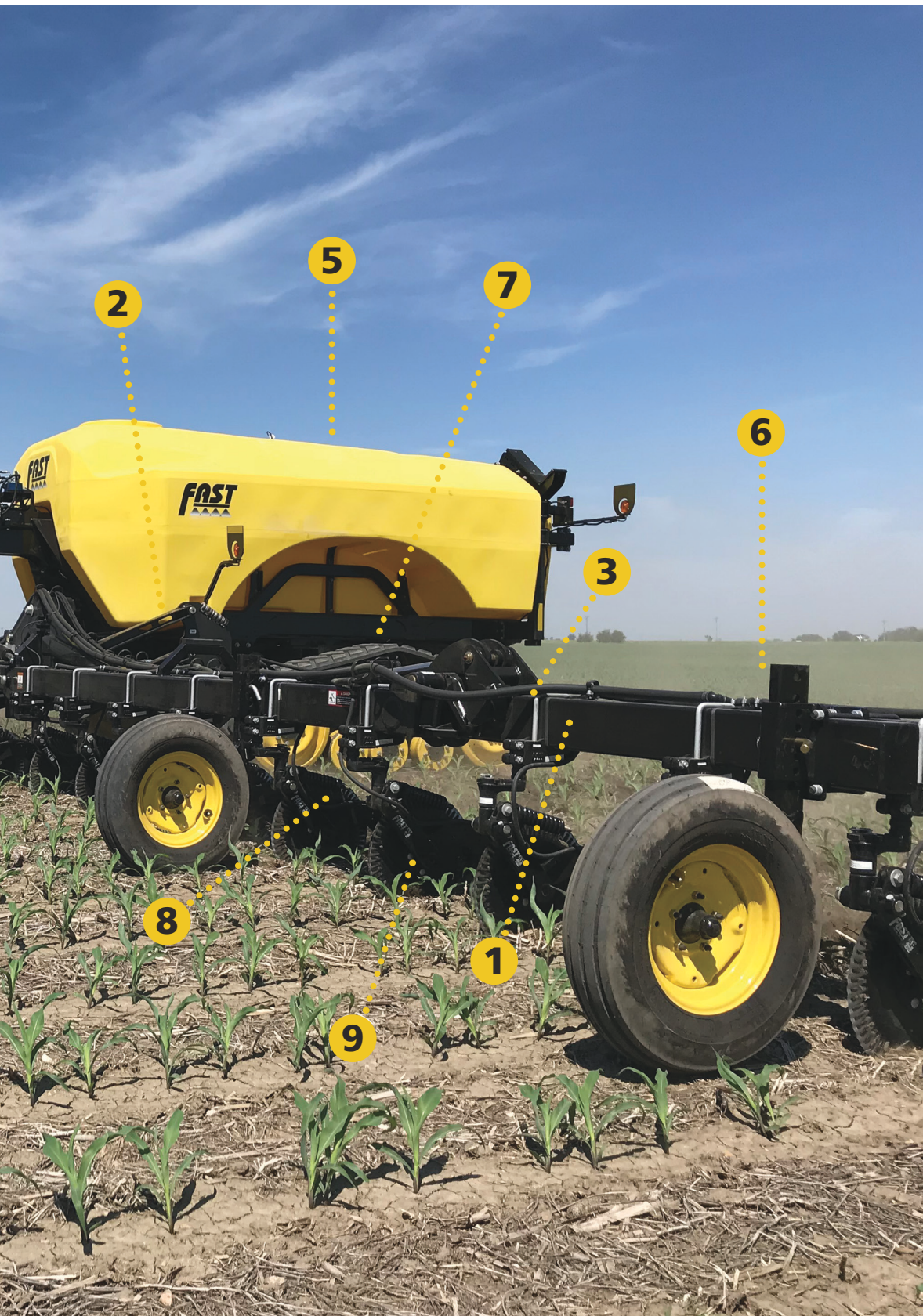


#4 – ISO Compatibility/Variable Rate Technology

Fast offers many different controller options to best fit your operation and provide you with the amount of precision that is desired when applying fertilizer. Tying into your in-cab display allows you to reduce clutter and also gives you the capability along with variable rate tips to use fertilizer prescriptions.

4





#5 – Fast’s “Stealth” Tank Design

US Patent #7,585,000. A lower center of gravity and large trough sloped sump with excellent cleanout keeps the tank primed on long slopes. This tank allows Fast to achieve its short-coupled design along with dual option configurations.



#6 – Flexible/Narrow Row Spacing Options

No two farming operations are perfectly alike. Fast prides itself on being flexible and offering solutions that will fit your needs all the way down to 10” or 15” on most toolbars. We have designed our equipment for a multitude of different row spacing options to fit with many different types of crops and grower applications.



#7 – Dual Wheel/Track Capability

Our Stealth tank design allows us to offer many different tire and axle spacing options. Increase your flotation and decrease your compaction with many different dual options or CAMSO (formerly Camoplast) 15” track system. This also helps increase your application window and fits well with our 2400 gallon tank.



#8 – Fast Advanced Placement “AP” Coulter

Standard on all Fast Applicators, our exclusive, patent pending Fast AP Coulter provides superior flexibility and stability in the field. This innovative cast design has allowed Fast to add strength where it is needed to ensure this coulter will stand up to the demands of your operation. Fast’s “hex” shank design provides 8 different coulter offset positions.



#9 – Fast Crop Defender

Fast’s exclusive Crop Defender helps with shielding your crop by knocking down displaced soil caused from the coulter blade. This is especially important in narrow row or very early side-dress applications to help ensure the crop is not covered by soil. Farmers have also stated that the Crop Defender allows them to side-dress at higher speeds.



60' A-SERIES APPLICATOR

The Fast 60' A-Series Applicator features an innovative toolbar design for a narrow transport width of 11' 10". This design increases safety, eases operator stress, and helps decrease operator liability while on the road.

The 60' A-Series Applicator utilizes many previous Fast toolbar design concepts, which have been proven to exceed the demands of your operation with our Flex-Hinge™ design, Wide-Stance Cast Parallel Links, Hydraulic Wing Kick™ and Active Hydraulic Downforce.

The 60' A-Series model offers both 1,800 and 2,600 gallon tank capacities with a larger sump, enhanced weight distribution and lower profile to significantly increase operator visibility from the cab. This applicator will also accommodate row/coulter spacing from 10-40".

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Hydraulic Folding Gauge Wheel - Optional

Fast offers an optional folding gauge wheel that ties into the applicator's hydraulic fold circuit. This premium add-on will help reduce liability on the road with its reduced transport width



Transport Width Under 12'

Fast's innovative toolbar and new tank design allows this applicator to fold under 12' wide in transport, which makes it over 3' narrower than any other 60' toolbar design on the market! This significantly lowers liability on the road, eases operator stress, and allows the applicator to be roughly the same width as the tractor on the road.



Fast Steerable Hitch (Optional on 60' A-Series)

Fast's Steerable Hitch option is an ISO system that compensates to keep the applicator in the tractor tracks both on hillsides on while turning on headlands to reduce crop damage. The pictures above show how much crop is saved with the steerable hitch enabled vs. disabled.

STANDARD FEATURES

- 1,800 or 2,600 Gallon Tank Design – Low center of gravity and large, trough-sloped sump.
- Standard Tires
 - o 1800 Gallon – 380/90R46 Singles
 - o 2600 Gallon – 480/80R50 Singles
- Industry Leading Toolbar Flex – Fast's focus is to maximize toolbar flex to allow the coulters to apply nitrogen at a consistent depth throughout the field in varying field conditions
- Multiple Row Spacing Options – 10" to 40" coulters spacing is available as options
- Active Hydraulic Downforce – Adjustable downforce provides superior ground penetration and consistent application.
- Hydraulic Wing Kick™ – The outer toolbar raises for headland turns to minimize crop damage and maximize yields.
- Ace 205-304F Hydraulic Pump and Over-Speed Protection – The hydraulic flow limiter provides over-speed protection, adding to pump longevity.
- Overall Quality Manufacturing – The Fast commitment to quality presents itself in the details of our products. With our castings, DOM's and greaseable pins in higher wear pivot points, and the Magni treatment of every nut, bolt and hardware piece, we build machines to last.
- Powder Coat Paint.

KEY OPTIONAL FEATURES

- Fast Steerable Hitch - Compensates on hillsides and headlands
- CAMSO Tracks –15" Wide, unmatched durability and flexibility
- Hydraulic Downforce on Flip Wings
- Chemical Eductor
- Tank Agitation



30'/40' A-SERIES APPLICATOR

The Fast 30'/40' A-Series Applicator features an innovative toolbar design that achieves narrow transport width while maximizing toolbar flex and performance in the field. This applicator offers 11'10" transport width with hydraulic folding gauge wheels for safer road transport while reducing operator stress and liability.

Narrow transport did not compromise the in-field toolbar performance that Fast is known for. The 30'/40' A-Series has 15 degrees down-flex and 10 degrees up-flex with 3 even toolbar sections to provide follow ground contours and effectively consistent nitrogen placement. This applicator features Fast's wide stance parallel linkage and a flex hinge that ensures the toolbar moves straight up and down when following contours – this is unique compared to competitors' toolbars that often flex forward or backward and change the application angle.

This model is offered in 1050, 1350, 1800, and 2400 gallon tank capacities and row spacings from 20"-40".

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Hydraulic Folding Gauge Wheel – Optional

Fast offers an optional folding gauge wheel that ties into the applicator's hydraulic fold circuit to reduce transport width to 11'10". This premium option will help reduce liability on the road with its reduced transport width.



Innovative Toolbar Flex

This toolbar is designed to follow ground contours effectively and ensure nitrogen is getting consistently placed in the soil. It offers three even sections of toolbar flex with 15 degrees down-flex and 10 degrees up-flex. The toolbar is also designed to flex straight up and straight down which ensures that nitrogen is placed at a consistent angle in the ground.



Fold Sequence/Flip Wings

The 30'140' A-Series utilizes a fold box and hydraulic block to simplify the folding process and reduces the number of total hydraulic outlets required to operate the applicator to three with a 40' toolbar. The operator also no longer needs to manually pin the flip wings in field operation.

STANDARD FEATURES

- 1050, 1350, 1800, or 2400 Gallon Tank Design – Low center of gravity and large, trough-sloped sump.
- Standard Tires – 380/90R46 Singles
- Industry Leading Toolbar Flex – Fast's focus is to maximize toolbar flex to allow the coulters to apply nitrogen at a consistent depth throughout the field in varying field conditions
- Multiple Row Spacing Options – 20" to 40" coulter spacing is available as options
- Active Hydraulic Downforce – Adjustable downforce provides superior ground penetration and consistent application.
- Hydraulic Wing Kick™– The outer toolbar raises for headland turns to minimize crop damage and maximize yields.
- Ace 205-304F Hydraulic Pump and OverSpeed Protection – The hydraulic flow limiter provides over-speed protection, adding to pump longevity.
- Overall Quality Manufacturing – The Fast commitment to quality presents itself in the details of our products. With our castings, DOM's and greasable pins in higher wear pivot points, and the Magni treatment of every nut, bolt and hardware piece, we build machines to last.
- Powder Coat Paint

KEY OPTIONAL FEATURES

- Hydraulic Folding Gauge Wheels – Reduces Transport Width from 15'2" to 11'10"
- Vari-Rate Nozzles
- Ace 255-304 Wet Seal Hydraulic Pump



8100 SERIES APPLICATOR

The 8100 series from Fast is a 60' vertical-fold model equipped with a 6"x4" double tube toolbar. This model is offered at a lower price point than the A-Series model, but also boasts many of the same features, such as hydraulic Wing Kick™, hydraulic down-pressure, wide-stance parallel-link, and the ability to fold the outer wings and apply fertilizer at a 40' width. The 8100 model is available with an 1800 gallon patented "Stealth" style tank.

The 8100 also has many features that exceed its competition, such as dual wheel capability, short-coupled trailer, and an overall dependable design.

A large photograph of a red and white FAST 8100 Series Applicator operating in a cornfield. The applicator has a large white tank with the FAST logo on it and a red frame. It is moving through rows of green corn plants. The background shows a clear blue sky and a flat horizon.

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Wide Stance Parallel Link

Fast applicators are known for their stable and smooth toolbar ride that is accomplished through our wide stance parallel link lift arms that provide increased strength and stability.



High Crop Clearance

Pulling a piece of equipment through a field always carries a risk of crop damage. Fast applicators are designed to avoid this problem, with a high-crop coulter clearance of 21 1/2" and a Wing Kick™ feature to lift the toolbar when turning on end rows.



Dual Toolbar Configuration

All Fast Applicators are capable of dual toolbar configuration. Flip the outside wing up and operate your 40' as a 30' bar, your 60' as a 40', or even your 90' as a 60'.

STANDARD FEATURES

- Fast "Stealth" Tank Design – U.S. Patent #7,585,000, 1800 gallon capacity offers a low center of gravity and a large troughed sloped sump with excellent cleanout which will keep the pump primed on long slopes
- Ace 205-304F Hydraulic Pump and Over-Speed Protection – Designed to give the pump a longer lasting life is the hydraulic flow limiter that provides over-speed protection
- Hydraulic Down Pressure – All Fast applicators are designed with a hydraulic down pressure on the wings, which gives the coulters better ground penetration and consistent application
- Gauge Wheels – The 8100 model comes with four gauge wheels, which consistently keep all coulters in the ground
- Built to Last – The 6" x4" double tube toolbar has been proven to surpass farmer expectations over hundreds of thousands of acres
- Quality in the Details – Fast's commitment to quality shows up in the details. We improve the life of our product by using castings, DOM's, and greasable pins in highly corrosive areas, which leads to a longer-lasting, higher-quality product. Fast also uses Magni treatment of nuts, bolts and other hardware in highly corrosive areas which adds up to a longer-lasting higher-quality product
- Ten Gallon Hand Wash Tank

KEY OPTIONAL FEATURES

- Larger Single or Dual Tires
- ISO Ready Connection
- Tall/Narrow Gauge Wheels
- Fast Crop Defender



8000N & 8300 SERIES APPLICATORS

Fast offers two vertical fold 30'/40' applicator models – the 8000N Series and 8300 Series. Both applicators feature Fast's field-proven design with single tube 7"x7" toolbar and the ability to fold a 40' toolbar to apply at 30' width. Both models feature Fast's patented Stealth style tank design with a low center of gravity and a deep sump.

The 8300 Series features tanks sizes ranging from 1050-2400 gallons while the 8000N model offers 1050 and 1350 gallon tanks. The 8300 model has the ability to be set up with 17 coulters on 30" spacing, comes standard with 380/90R46 single tires, and has shorter parallel linkage vs. the 8000N model. The 8000N model features narrower transport width at 15' wide, smaller standard tires, and arrives at a lower price point than the 8300 model.

Both models feature the same high quality design and dependability that Fast is known for. Both models come standard with active hydraulic downforce on the toolbar to effectively follow ground contours as well as hydraulic WingKick™ to hydraulically tilt up the outer wings when the toolbar is raised.

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Short Coupled Design

Both models feature a short coupled, high clearance trailer with one of the shortest hitch-pin-to-axle lengths in the industry to provide superior tracking and minimized crop damage.

Industry Leading Toolbar Flex

Both models are designed to maximize both upward and downward toolbar flex, 10.5 degrees upward and 6.2 degrees downward. This ensures that the toolbar and coulters will follow contours throughout the field to inject your fertilizer in the ground at a consistent depth. This provides more efficient use of your fertilizer investment.

Hydraulic Wing Kick™

Both models are also designed with our hydraulic Wing Kick™ feature, which kicks up the outer toolbar when turning on the headlands in order to minimize crop damage.

STANDARD FEATURES

- Fast “Stealth” Tank Design – low center of gravity and a large trough sloped sump with excellent cleanout
 - 8300 Series Tank Sizes – 1050, 1350, 1800, 2400 gallons
 - 8000N Series Tank Sizes – 1050, 1350 gallons
- Standard Tires and Hub
 - 8300 Series – 380/90R46 Singles with 10 bolt hub
 - 8000N Series – 1050 Gallon Tank – 13.6x38” Singles and 8 bolt hub
 - 1350 Gallon Tank – 320/90R46 Singles with 10 bolt hub (optional upgrade to 380/90R46 Tires)
- Row Spacing Options
 - 8300 Series – Multiple options, including 10” or 15” spacing with the 8318DB double tube toolbar design. 20” and 22” also available along with wider row spacings such as 36” and 38”. Can accommodate a wider toolbar for 17 coulters on 30” spacing.
 - 8000N Series – Only offered with 30” row spacing, max toolbar width is 15 coulters on 30” spacing
- Toolbar Width Versatility – Equipped with an external hydraulic fold cylinder so the operator is able to fold the outer wing on a 40’ toolbar and have the ability to use the same toolbar at 30’ as well, making it easier to get a more consistent application on planter come-togethers.
- Hydraulic Down Pressure – All Fast applicators are designed to have hydraulic down pressure on the wings which will give the coulters better ground penetration and a much more consistent application depth allowing you to get the most out of your fertilizer investment.
- Hydraulic Wing Kick™ – Hydraulic Wing Kick™ tilts the outer wings when the toolbar is lifted to help ensure that the coulters do not dip into the crops when turning.
- Hydraulic Pump – Ace 150-206F hydraulic pump
- Powder Coat Paint – Fast’s new automated 5-stage wash and powder coat paint line provides a consistent process that gives our steel a durable, attractive finish.
- Quality in the Details – Fast’s commitment to quality shows up in the details to improve the life of our product, such as using castings, DOM’s, and grease-able pins in higher wear pivot points and using Magni treatment of nuts, bolts, and other hardware in highly corrosive areas. All of which add up to a longer lasting, higher quality product.



8400
Series

8400 & 8500 SERIES APPLICATORS

These applicator models offer the **world's largest** (8500 - 120') and the **most field proven** 80', 88', and 90' applicator (8400) on the market. Both models are built to last with standard heavy-duty lift assist wheels, 380/90R46 Duals tires or tracks as an appealing option, and a 5"x7" double tube toolbar. Both models come standard with a 2400 gallon "Stealth" style tank.

Maximize your efficiency and cover more acres by matching up with your 80/88/90/120' planter to put your nitrogen in the ground as quickly as possible.

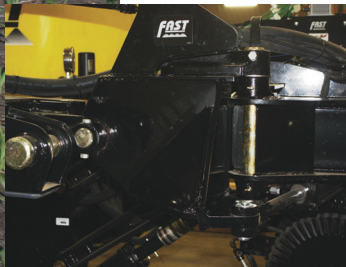
CAMSO 15" Tracks are also a great fit with this applicator to achieve even greater flotation with large tank capacity.



8500
Series



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World's Largest Applicator

Fast's 8500 series is the largest liquid fertilizer applicator on the market. The 120' applicator uses many of the same design concepts from Fast's 8400 series which have been tested over hundreds of thousands of acres but also adds a 15' wing on each side which flexes to follow ground contours along with an added lift assist wheel on each side to ensure long term durability.

Flex-Hinge™ Design

The 8400 and 8500 models have a flex-hinge™ design, giving the operator excellent fertilizer placement. It includes industry-leading five-section flex (8400) or seven-section flex (8500), and a toolbar flex of 15 degrees upward and 8 degrees downward. This ensures the fertilizer is consistently placed at optimum depths, even on hilly terrain.

High Capacity & High Flotation

Fast's 8400 and 8500 models can cover several acres with the standard 2400 gallon Fast "Stealth" tank, along with 380/90R46 duals with 20k lb. hub and spindle. Add tracks to further increase your flotation.

STANDARD FEATURES

- Fast "Stealth" Tank Design – U.S. Patent #7,585,000, 2400 gallon capacity offers a low center of gravity and a large troughed sloped sump with excellent cleanout which will keep the pump primed on long slopes
- Hydraulic Wing Kick™ – These models are designed with Fast's wing kick™ feature, which kicks the outer toolbar to help reduce crop damage when turning on headlands
- Hydraulic Down Pressure – All Fast applicators are designed with a hydraulic down pressure on the wings, which gives the coulters better ground penetration and consistent application
- Single Reach Tongue – The single reach tongue on all Fast applicators is specifically designed to reduce crop damage so the operator is able to have a sharper turning radius and reduced crop damage
- Lift Assist Wheels – Two (8400) or four (8500) heavy-duty lift assist wheels give added support to the toolbar
- Hydraulic Folding Gauge Wheels – Both models come standard with hydraulic folding gauge wheels which tie into the hydraulic fold circuit to reduce transport width by 15.1"
- Powder Coat Paint – Fast's new automated five-stage wash and powder coat paint line provides a consistent process that gives our steel a durable, attractive finish
- Quality in the Details – Fast's commitment to quality shows up in the details. We improve the life of our product by using castings, DOM's and greasable pins in highly corrosive areas, which leads to a longer-lasting, higher-quality product. Fast also uses Magni treatment of nuts, bolts and other hardware in highly corrosive areas which adds up to a longer-lasting higher-quality product
- Ten Gallon Hand Wash Tank

KEY OPTIONAL FEATURES

- ISO Ready Connection
- Pentair Hypro Cleanload Chemical Eductor
- 15" CAMSO (Camoplast) Tracks



813P & 833P SERIES APPLICATOR & TRACK TANKS

Maximize the use of the 813P/833P in your operation by utilizing Fast tractor mounted tanks.

Fast Track Tanks are compatible with John Deere 8RT, Fendt Vario 900, Challenger MT700, and Case IH Steiger RowTrac (all 1000 gallon capacity) track tractors and give you maximum flexibility to utilize in multiple applications, such as starter fertilizer, side-dressing, and spraying. These tanks are made out of stainless steel for increased life with high durability and excellent cleanout. Operators praise the smooth ride and flexibility obtained from these tractor mounted tanks.

The 813P and 833P vertical fold is a three-point mounted fertilizer bar offered in 30', 40' (833P), and 60' (813P) toolbars, and are an excellent way to minimize crop damage in the field.

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Toolbar Flex

The 813P/833P is designed to have wing flex throughout the entire toolbar. This flex will allow for much better ground penetration and even depth control and fertilizer placement in uneven terrain.



Reduced Footprint

Minimize crop damage and increase your versatility with 3-point mounted toolbars. Exceptional in tighter fields and hilly conditions.



813P & 833P STANDARD FEATURES

- Hydraulic Fold Toolbars— 7x7 single tube toolbar available in 30' and 40', 4x6 double tube toolbar for 60' units, external hydraulic fold cylinders, 40' bar can be folded and used at 30'
- Hydraulic Wing Kick™ to reduce crop damage
- TeeJet Ball Valves – Two sections for 30' & 40' toolbars, three section on 60' toolbars
- 60P Flow Meter and 1-1/2" Motorized Control Valve
- Wing Gauge Wheels – Two on 30' and 40' toolbars, Four on 60' toolbars
- Ace Hydraulic 150-206 pump on 30' and 40'
- Ace 205-304F pump for 60'
- Pump Hydraulic Flow Limiter – Provides overspeed protection
- Powder Coat Paint – Durable, attractive finish
- Parking Stands
- Hitch Option



Rinse Out System

Track Tanks come with a rinse system that utilizes a sparger tube and rinse balls to spray clean water throughout the tank when switching chemicals to reduce contamination. This, along with the tanks' SS design, helps ensure excellent chemical cleanout.

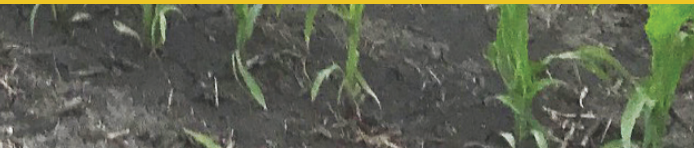


Inboard Mounted Design

These inboard tanks are mounted inside the track which keeps the tanks from increasing the transport width of the tractor, while giving the operator excellent visibility while in the cab.

TRACK TANK STANDARD FEATURES

- All New! Fendt Vario 900/Challenger MT700 Series - 1000 gallon capacity
- Case-IH Steiger Rowtrac Compatible Tanks – 1000 gallon capacity
- John Deere 8RT Compatible Tanks – 1000 gallon capacity
- Challenger E Series Compatible Tanks – 850 gallons
- Excellent Weight Distribution
- Made from 10 Gauge Stainless Steel
- Stainless Steel Welded in Baffles
- Rubber Mounted on Frame
- Powder Coat Paint



FAST AG SOLUTIONS LIQUID FERTILIZER APPLICATOR SPECIFICATIONS



MODEL	8000N VERTICAL FOLD	8100 VERTICAL FOLD	30'/40' A-SERIES (W/ FOLDING GW)	60' A-SERIES (W/ FOLDING GW)	8300 VERTICAL FOLD	8400 SIDE FOLD
Transport Height	12'8" (15 coulters)	16'1"	13'3"	12'0"	14'6"	11'4"
Working Transport Width	15'0"	20'5"	11'10"	11'10"	16'6"	22'0"
Shipping Transport Width	12'	16'10"	11'10"	11'10"	12'9"	20'8"
Transport Length	15'3"	21'1"	21'3"	24'0"	17'4" (1050 & 1350 gal) 21'1" (1800 & 2400 gal)	29'9"
Hitch Pin-to-Axle Length	12'0"	15'9"	13'1" (1350 gal) 15'9" (1800 gal)	15'10"	13'1" (1050 & 1350 gal) 15'9" (1800 & 2400 gal)	17'8"
Empty Weight (lbs)	8,100 (1350 gal, 15 coulters)	12,110 (23 coulters)	9,505 (15 coulters)	18,250 (1800 gal)	8,320 (1350 gal, 15 coulters)	15,378 (35 coulters)
Tank Size(s) (gal)	1050, 1350	1800	1,050, 1,350, 1,800, 2,400	1,800, 2,600	1050, 1350, 1800, 2400	2400
Toolbar Size(s)	30', 40'	60'	30', 40'	60', 66'	30', 40', 44'	80', 88', 90'
Standard Tires	13.6x38" (1050 gal) 320/90R46" (1350 gal)	380/90R46"	380/90R46"	380/90R46 Singles (1,800 gal) 480/80R50 Singles (2,600 gal)	380/90R46"	Duals 380/90R46"
Delivery Type	Knife or Injection	Knife or Injection	Knife or Injection	Knife or Injection	Knife or Injection	Knife or Injection
Standard Hydraulic Pump	Ace 150-206F	Ace 205-304F	Ace 150-206F	Ace 205-304F	Ace 150-206F	Ace 205-304F
Toolbar Tube Size	7"x7" single bar	5"x7" double bar, single on outer wings	7"x7" single bar	5"x7" double bar, single on outer wings	7"x7" single bar	5"x7" double bar, single on outer wings
Hydraulic Down Pressure	Yes	Yes	Yes	Yes	Yes	Yes
Hydraulic Wing Kick™	Yes	Yes	Yes	Yes	Yes	Yes
Engine HP Required	150-180	190-200	150-180	220+	150-180	240-260
Quick Fill Size	2"	3"	2"	3"	2"	3"



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REV. JANUARY 2024