



# FAST AG SOLUTIONS LIQUID FERTILIZER APPLICATORS

PLACE YOUR  
NITROGEN  
IN THE GROUND



**FAST** DESIGNED  
BY FARMERS | FOR FARMERS

# FAST DESIGNED BY FARMERS | FOR FARMERS

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.

## 100% EMPLOYEE OWNED

In 2015, FAST became a 100% employee-owned company through a merger with WASP, Inc., (now known as FAST Global Solutions, Inc.) based out of Glenwood, MN. This partnership has allowed both companies to diversify and continue to grow by devoting more resources to new product design and innovation as well as having more workforce and capacity available to meet customer demands. Together, both FAST AG and FAST Global are committed to continuing to provide quality, dependable products while also pushing the envelope on new technologies to help increase the bottom line of your farming operation.

## QUALITY DESIGN

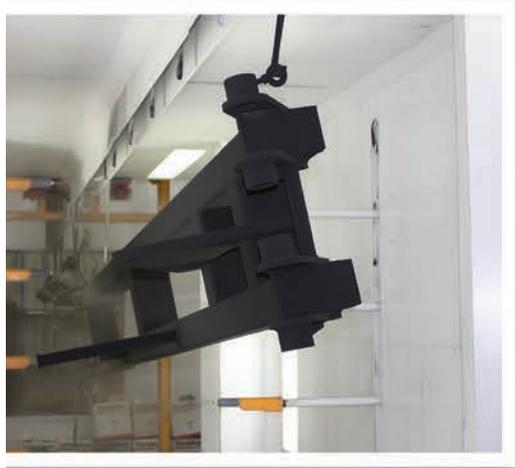
Over the years FAST has continued to invest in equipment to increase the automation and consistency of our manufacturing process to provide high quality machinery for farmers. Our manufacturing facility currently utilizes flat laser tables, a tube laser, a robotic welding cell, multiple press brakes,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



NOTE: PICTURES THROUGHOUT BROCHURE MAY CONTAIN NON-STANDARD EQUIPMENT

# INDEPENDENT NITROGEN TIMING SUMMARY

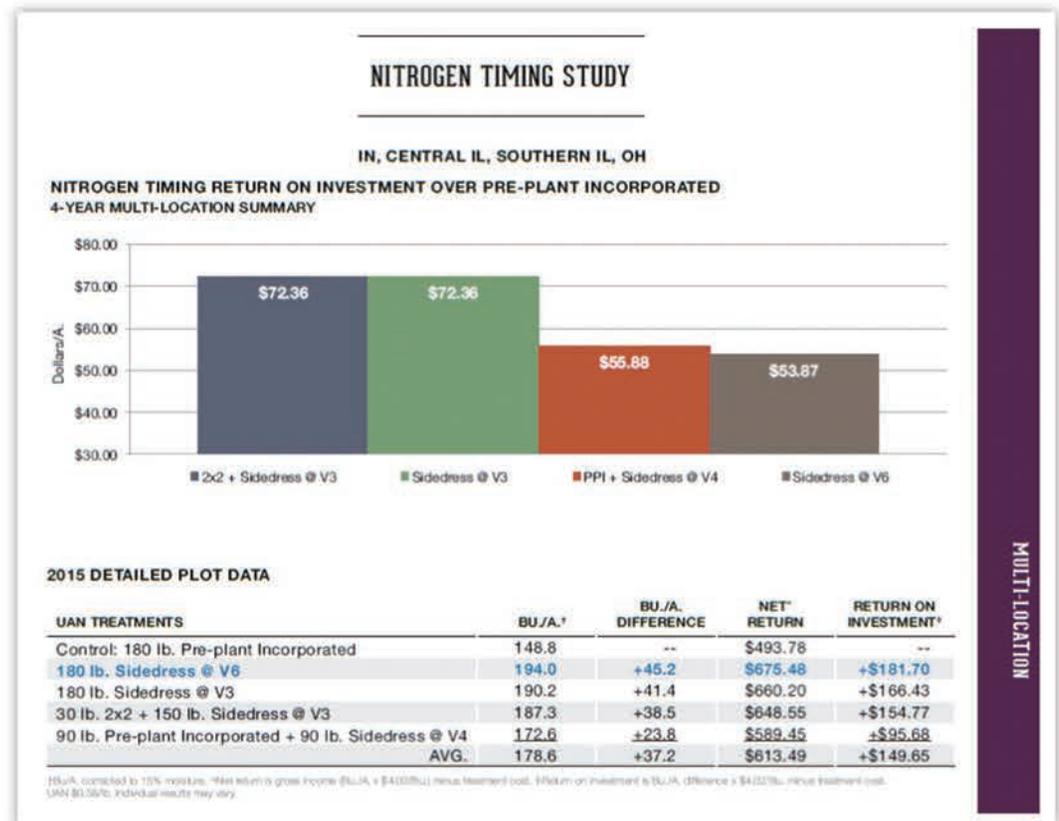
## 100% PREPLANT NITROGEN VS. V3-V6 SIDEDRESS



### 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 coulters 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?***

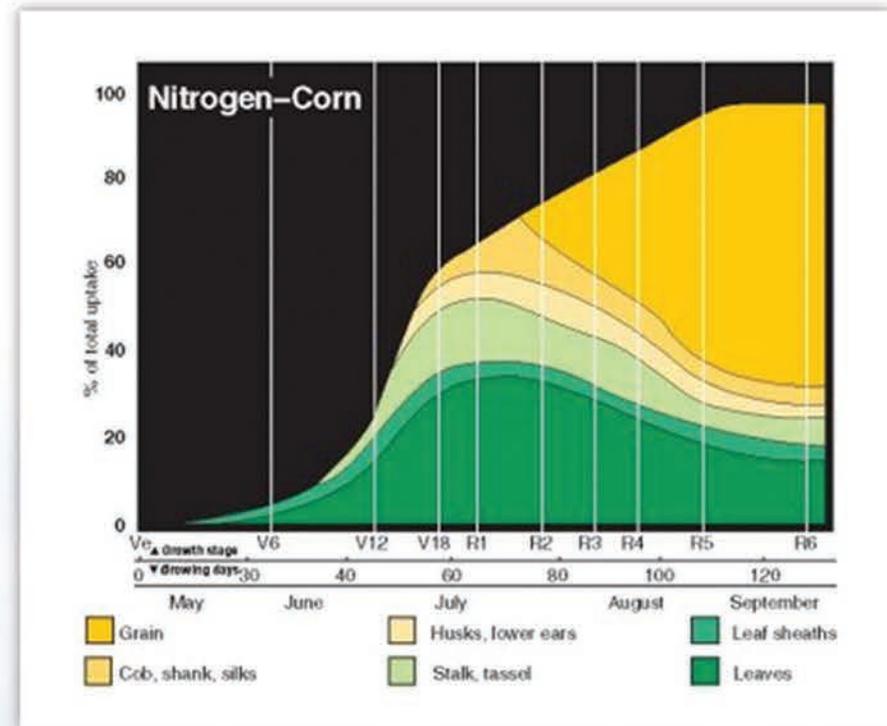
There has been a lot of discussion on nitrogen timing and the best methods to apply nitrogen. The University of Missouri states it well, "The BMP for timing of nitrogen (N) fertilizer applications is to apply fertilizer as close as possible to the period of rapid crop uptake (Figure 1). Managing N in 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 seven 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 get heavy rains in the Fall or Spring, you could lose a very significant portion of your nitrogen through leaching, which is also not as environmentally friendly since this nitrogen has nowhere to escape but deeper into the soil.
- 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. In addition, what individuals pushing late-season side dress do not mention is that the microbes and organic matter in your soil contain a significant amount of nitrogen that is naturally released as the soil warms up through the summer.

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 needed 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, never to be utilized in boosting the yield of your crops.

**Injecting your nitrogen in the soil helps reduce this risk of volatilization** and helps ensure that the nitrogen that you apply will still be there when your crops need it most.

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/EBO209.pdf>
- University of Purdue - <https://www.agry.purdue.edu/ext/pubs/2006NLossMechanisms.pdf>



# 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.



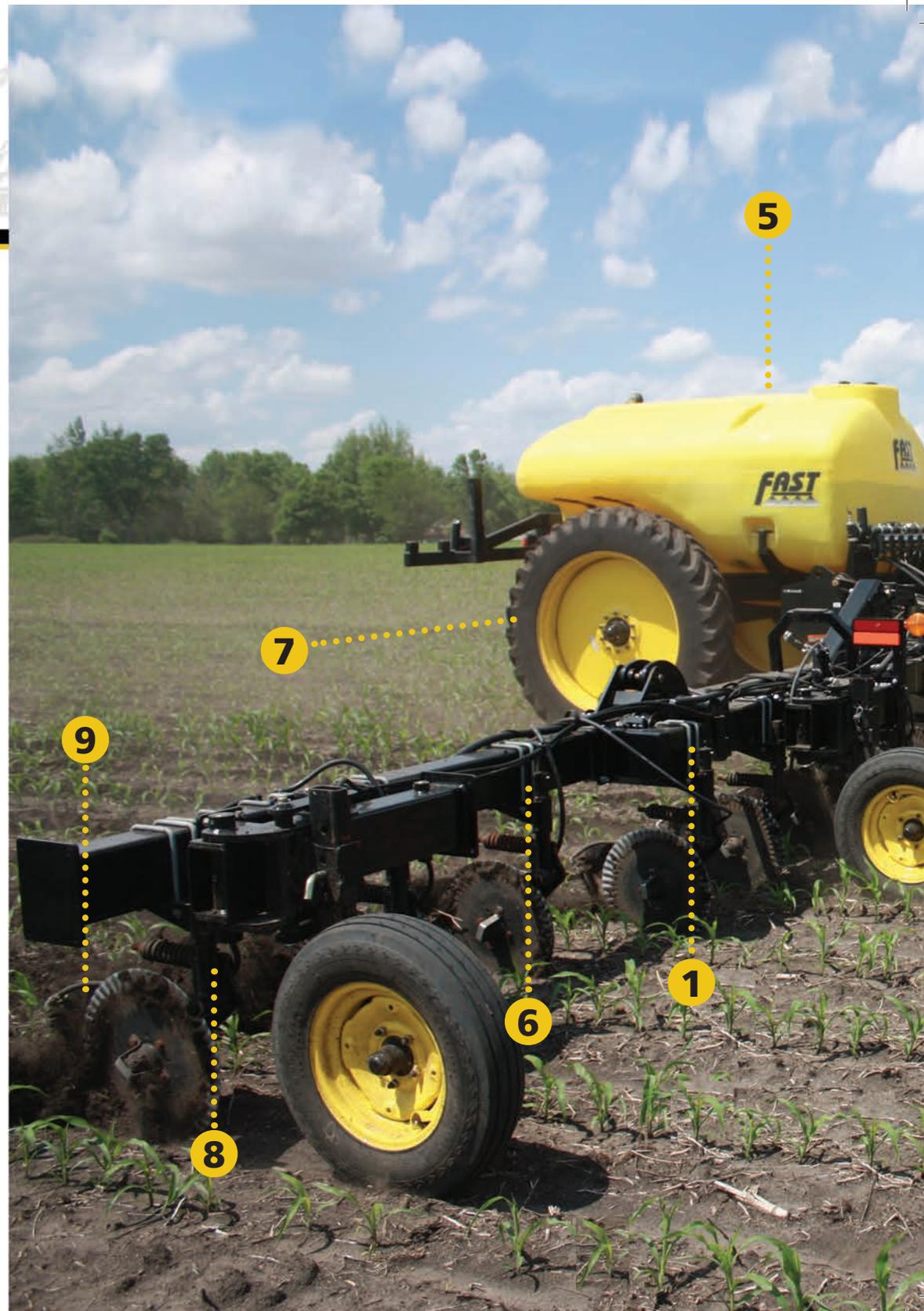
## #3 – Hydraulic Wing Kick

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.





### **#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 Coupler**

In addition to our standard Clymer coupler, we also offer our own FAST coupler design as well as the Yetter Viper II coupler. The FAST coupler has a durable shank design and will also provide a more stable coupler ride through the field resulting in even more consistent fertilizer placement. The Viper's wiper wheel design helps minimize soil displacement, which is especially important in narrow row applications.



### **#9 – FAST Crop Defender**

FAST's exclusive Crop Defender helps with shielding your crop by knocking down displaced soil caused from the coupler 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.



# FAST

## 8200 SERIES APPLICATOR

This side-fold applicator is a farmer's first choice when looking for a dependable, high performance toolbar that will surpass competition across any type of terrain. The 8200 series is offered in toolbar lengths of 60' and 66'; the 60' toolbar can also fold at 40'. Tank sizes are offered in 1800 or 2400 gallon capacities with FAST's patented "Stealth" style tank.

Operators praise the flex-hinge™ design, which allows for a narrow transport width and below ground-level travel of the toolbar. This ensures consistent depth of all coulters, giving the operator confidence in their nitrogen investment. The side-fold design also minimizes transport width and height, making road travel much safer.

The 8200 also offers row spacing options all the way down to 10" which makes it an excellent fit in small grains.

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### **Flex-Hinge™ Design**

*The 8200 model has a flex-hinge™ design, giving the operator excellent fertilizer placement. It includes industry-leading toolbar flex of 15 degrees upward and 8 degrees downward. This ensures that the fertilizer is consistently placed at optimum depths, even on hilly terrain.*



### **Side-Fold Transport**

*The side-fold design allows for narrower transport widths and lower transport heights than seen on the models sold by most competitors. This reduces liability on the road and provides safer travel.*



### **Hydraulic Folding Gauge Wheel - Optional**

*FAST offers an optional folding gauge wheel that ties into the applicator's hydraulic fold circuit. The helps reduce liability on the road by reducing the standard transport width by 15.1"*

## STANDARD FEATURES

- FAST "Stealth" Tank Design – U.S. Patent # 7,585,000, 1800 or 2400 gallon capacities 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 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
- Ace 205-304F Hydraulic Pump and Over-Speed Protection – The hydraulic flow limiter provides over-speed protection, which also adds to pump longevity
- Hydraulic Wing Kick™ - The 8200 is designed with FAST's Wing-Kick™ feature, which kicks up the outer toolbar when turning on the headlands in order to minimize crop damage
- Built to Last – The 5"x7" 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 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 which add up to a longer lasting higher quality product
- 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
- Ten Gallon Hand Wash Tank

## KEY OPTIONAL FEATURES

- Large Single Tires, Duals, or 15" Tracks
- FAST Coulters
- FAST Crop Defender
- Tank Agitation
- Tall/Narrow Gauge Wheels



# FAST

## 8300 SERIES APPLICATOR

This vertical-fold compact applicator gives you the dependability and performance you are looking for and is offered in 30', 40', or 44' widths. Our 40' toolbar features a hydraulic fold cylinder, so the operator can fold the outer wing and use the toolbar at 30' as well. This is the only FAST applicator model that offers tank sizes in 1050, 1350, 1800, and 2400 gallon capacities with FAST's patented "Stealth" style tank.

Operators praise the toolbar ride of this unit, which is made possible through industry-leading toolbar flex, hydraulic down-pressure, and a wide-stance parallel link. The 8300 also allows for row spacing flexibility with adjustable axle widths and coulter spacing options. We also offer a larger standard tire than most of our competitors to reduce compaction in your fields.

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### **Short Coupled Design**

*The 8300's short coupled, high clearance trailer with one of the shortest hitch-pin-to-axle lengths in the industry provides superior tracking and minimized crop damage.*



### **Increased Flotation**

*The 8300 model comes standard with 380/90R46 tires on 1050, 1350, and 1800 gallon tank options. This gives you more flotation compared to competitors with this toolbar size, to help reduce compaction and increase your application window.*



### **Hydraulic Wing Kick™**

*The 8300 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 – U.S. Patent # 7,585,000, 1050, 1350, 1800, or 2400 gallon capacities 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 Down Pressure – All FAST applicators are designed with hydraulic down pressure on the wings, which gives the coulters better ground penetration and consistent application
- Gauge Wheels – The 8300 series comes with two gauge wheels, providing consistent depth control.
- Hydraulic Pump – All 8300 models feature an Ace 150-206F hydraulic pump and hydraulic flow limiter to provide overspeed protection. These pumps are built to FAST specs with a silica carbide seal designed to extend the life of the pump
- Built to Last – The 7" x 7" toolbar has been proven to surpass farmer expectations over hundreds of thousands of acres
- 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
- Multiple Row Spacing Options – Flexibility to fit your operation
- Ten Gallon Hand Wash Tank

## KEY OPTIONAL FEATURES

- Larger Single or Dual Tires
- ISO Ready Connection
- 3" Quick Fill
- Pentair Hypro Cleanload Chemical Educator
- FAST Coulters
- FAST Crop Defender



# FAST

## 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 8200 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 durable design.

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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
- FAST Coulter
- Tall/Narrow Gauge Wheels
- FAST Crop Defender



# FAST

## 8000N SERIES APPLICATOR

The 8000N series features a 30' hydraulic fold toolbar or a 40' hydraulic, double fold toolbar. FAST's unique toolbar design gives it a very narrow 15' transport width, which is one of the narrowest in the industry. The 40' toolbar is also able to fold and side-dress at 30' with the same toolbar. This flexibility gives operators the ability to potentially do some custom application work for neighbors.

FAST's focus in designing these models was to offer a high quality design that customers have come to know from FAST at a price point that is lower than its current 8300 series. FAST also offers a 1050 or 1350 gallon "Stealth" style tank with the 8000N series.

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## STANDARD FEATURES

- FAST "Stealth" Tank Design - U.S. Patent #7,585,000, 1050 or 1350 gallon capacities offer a low center of gravity and a large trough sloped sump with excellent cleanout which will keep the pump primed on long slopes.
- Toolbar Width Versatility - The 8000N model is 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™ - The 8000N also has hydraulic Wing Kick™ which 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
- Tires - 13.6x38" tires on 1050 gallon model and 320/90R46" tires on 1350 gallon model; 380/90R46" tires are available as an option on the 1350 model.
- 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.



### **Narrow Transport Width**

*The 8000N is a very compact applicator with a transport width of only 15'. This allows for easier road travel and helps limit the operators' liability during transport.*



### **Industry Leading Toolbar Flex**

*The 8000N is 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.*



### **Short Hitch Pin to Axle Length**

*FAST was able to shorten the already short coupled trailer design with the 8000N. 144" from the hitch pin to axle improves tracking on hillsides and side slopes to minimize crop damage.*



# FAST

## 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.

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8400  
Series



8500  
Series





### **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 Educator
- 15" CAMSO (Camplast) Tracks



# FAST

## 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 both John Deere (1000 gallon capacity) and Challenger (850 gallons) 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.*



**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.*



**Compact 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.*



**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

**TRACK TANK  
STANDARD FEATURES**

- John Deere Full Tier 4 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
- External Sight Gauge
- Powder Coat Paint



# FAST AG SOLUTIONS

## LIQUID FERTILIZER APPLICATOR

### SPECIFICATIONS

MODEL	8000N VERTICAL FOLD	8100 VERTICAL FOLD	8200 SIDE FOLD	8300 VERTICAL FOLD	8400 SIDE FOLD
Transport Height	12'8" (15 coulters)	16'1"	10'2"	14'6"	11'4"
Working Transport Width	15'0"	20'5"	20'6"	16'6"	22'0"
Shipping Transport Width	12'	16'10"	16'6"	12'9"	20'8"
Transport Length	15'3"	21'1"	21'1"	17'4" (1050 & 1350 gal) 21'1" (1800 & 2400 gal)	29'9"
Hitch Pin-to-Axle Length	12'0"	15'9"	15'9"	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)	13,670 (1800 gal, 23 coulters)	8,320 (1350 gal, 15 coulters)	15,378 (35 coulters)
Tank Size(s) (gal)	1050, 1350	1800	1800, 2400	1050, 1350, 1800, 2400	2400
Toolbar Size(s)	30', 40'	60'	60', 66'	30', 40', 44'	80', 88', 90'
Standard Tires	13.6x38" (1050 gal) 320/90R46" (1350 gal)	380/90R46"	380/90R46" (1800 gal) 480/80R50" (2400 gal)	380/90R46"	Duals 380/90R46"
Delivery Type	Knife or Injection	Knife or Injection	Knife or Injection	Knife or Injection	Knife or Injection
Crop Clearance (from bottom of coulters)	20"	28"	29"	21.5"	28"
Standard Hydraulic Pump	Ace 150-206F	Ace 205-304F	Ace 205-304F	Ace 150-206F	Ace 205-304F
Toolbar Tube Size	7"x7" single bar	5"x7" double bar, single on outer wings	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
Hydraulic Wing Kick™	Yes	Yes	Yes	Yes	Yes
Engine HP Required	150-180	190-200	200-220	150-180	240-260
Quick Fill Size	2"	3"	3"	2"	3"



**WINDOM, MN**

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**GILMAN, IL**

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