AGI

BIN MONITORING

AGI BinManager® / AGI SureTrack™ / IntelliFarms™

CONTACT US
TO GET A QUOTE

AGI BINMANAGER®

Advanced grain bin monitoring – with AGI BinManager®

AGI BinManager® intelligently monitors the moisture content and temperature of the commodities inside your bin, as well as the outside air, which enables the system to automatically choose the optimal times to run heaters and fans. Frequent condition readings ensure you can be on top of what's going on in your bin at any time, from anywhere, allowing you to maintain crop quality and achieve greater profitability.

PIONEERING BIN MONITORING EXCELLENCE

Throughout its history, AGI has been offering innovative technology solutions to farmers. In 2019, IntelliFarms™ joined the AGI portfolio to help further expand our grain management capabilities. Through the use of advanced sensors and controls, our highly automated solution works together with conditioning equipment to efficiently maintain the quality of stored grain, while allowing for remote monitoring and management of the system.

1974
First temperature sensor cables

1982
First fan automation

2008
First AGI BinManager systems

2019
Intellifarms joins AGI

PRESENT
Market-leading grain monitoring technology

AGI BINMANAGER® | AGI SURETRACK™ | INTELLIFARMS™

SAFETY
VISIBILITY
AUTOMATION
PROFITABILITY

Communications box
transmits data to online account

Sensor cables
monitor your bin

Weather station
measures temperature and humidity

Control box
powers the entire system

Air properties sensor (APS)
measures air pressure

FEATURES

5 state-of-the-art hardware components, working seamlessly together to protect your grain

Weatherproof control box and backlit control panel

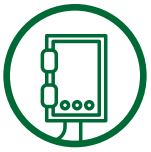
Weather station

Air properties sensor

Communications box

Moisture and temperature cable

Control box

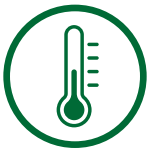


Controls the fans and heaters by accessing data from other parts of the system. It is also the power source for all the other components. Each control box can manage up to four devices (fans and/or heaters). For larger bins, multiple control boxes may be used, customized to meet your needs with an appropriate number of switch modules.

Weather station

Provides accurate and reliable information about the temperature and relative humidity of the outside air. This information is used to determine optimal times to run fans and heaters.

Air properties sensor (APS)

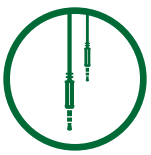


The APS measures the temperature and relative humidity of the air in the plenum. It also measures air pressure to check fan operation.

Communication box

Processes data from the sensor cables, delivers commands to the control box(es) and transmits data from your bins to your secure online account.

Sensor cables



Every sensor is spaced 2 feet apart to ensure accurate readings throughout your bin. This includes temperature, moisture and inventory monitoring.

SUMMARY OF BENEFITS

Safety

No more manual probing or climbing the bins — you can check your AGI BinManager activity from your smartphone, tablet or computer. Through the use of sensors and cables throughout the bin, AGI BinManager accurately reports inventory, moisture and temperature levels. Any time a reading is reported outside of the targets, alerts are sent directly to your phone or email.

Visibility

Get a real-time view of moisture and temperature readings with a 3D visual zoom feature, so you can know exactly what is going on in your bin at all times. Should conditions change, you can enable custom alerts that provide insights in order to help you make decisions for optimal storage conditions.

Automation

AGI BinManager measures moisture and temperature throughout the bin and analyzes the data against the conditions of the outside air and the air in the plenum. From there, it determines and automates fans and/or heaters to run when productive air is present, minimizing the loss and energy cost that comes from inefficient running of aeration equipment.

Profitability

In today's market you can capture higher profits by taking advantage of the carry and waiting to sell until demand is greater. But that only pays off if you can keep your grain in top condition. AGI BinManager dries, cools and even rehydrates grain with precision so you can reach your targets.

LEARN MORE

SAFETY

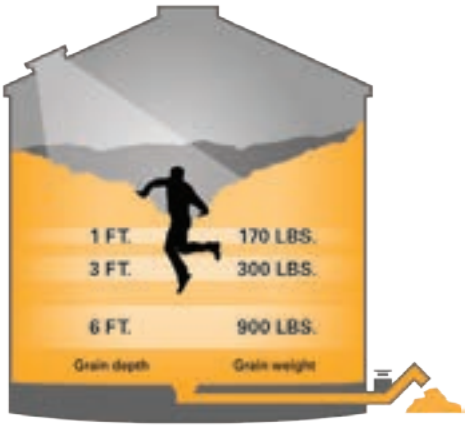
Improve bin safety

AGI BinManager provides a zero-entry solution.

Technology on the farm means more than wider profit margins, data collection and labor reduction. Today's technology has the capacity to elevate safety — and AGI BinManager is at the top of the list. Each year, the number of grain entrapment deaths rise – a statistic that AGI, along with the rest of the agriculture community, is taking measures to reduce. AGI BinManager is your next step to bin safety.

Safety improvements with AGI BinManager:

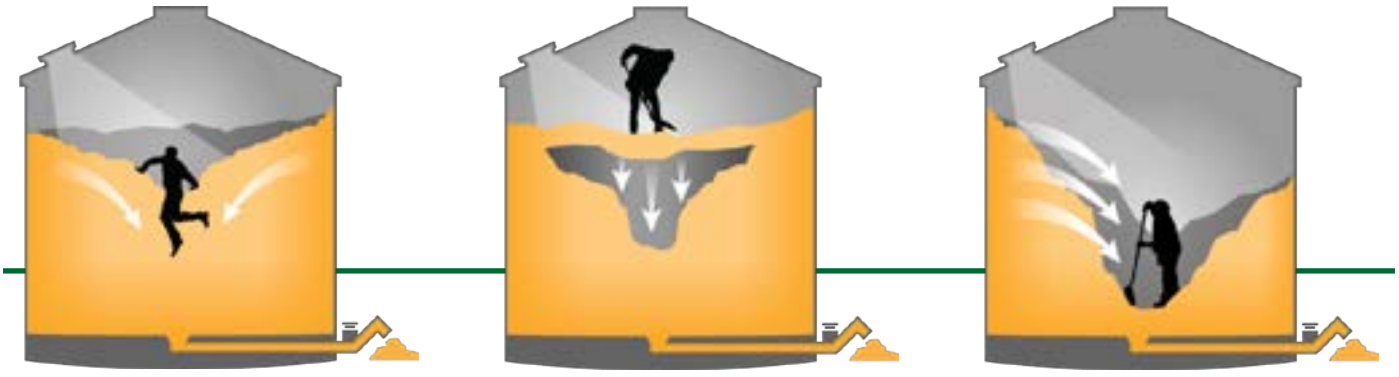
- **Zero-entry grain bin management:** Never enter a full, partially full or filling grain bin again.
- **Real-time cable and sensor readings:** There's no need to manually probe grain — data is captured and reported directly to the online dashboard.
- **Maintenance-free operation:** AGI BinManager requires no in-bin maintenance and, should a mechanical problem arise, our team of service technicians and customer service representatives will identify and quickly correct the problem.



Grain pressure

What it takes to pull a 165-lb person out of grain when entrapment occurs.

Grain bin entry hazards avoided with AGI BinManager:



Flowing grain

Standing on moving or flowing grain, which can shift like quicksand, can bury you in moments.

Bridged or cliffed grain

Moisture and/or mold can cause a stiff crust to form on the surface of stored grain. As grain is unloaded, a cavity can form under the bridge and then collapse if you attempt to cross it.

Avalanche or collapsing grain

Grain that has accumulated on the side of a bin can unexpectantly collapse covering anyone in the bin.

MAXIMIZE BIN SAFETY

VISIBILITY

Get instant alerts from your bin

Alerts provide insights to help you make decisions for optimal storage conditions and prevent spoilage or over-drying. There are 14 different alerts to choose from. Simple tables and 3D visuals enable you to know exactly what is happening in your bin.

- Real-time view of moisture and temperature readings
- Dashboard displays let you choose between easy-to-read tables or a 3D visual with zoom
- 14 custom alerts provide insights to help maintain ideal storage conditions
- Animate the conditioning of your grain and receive the data needed to know your grain will meet your marketing goals

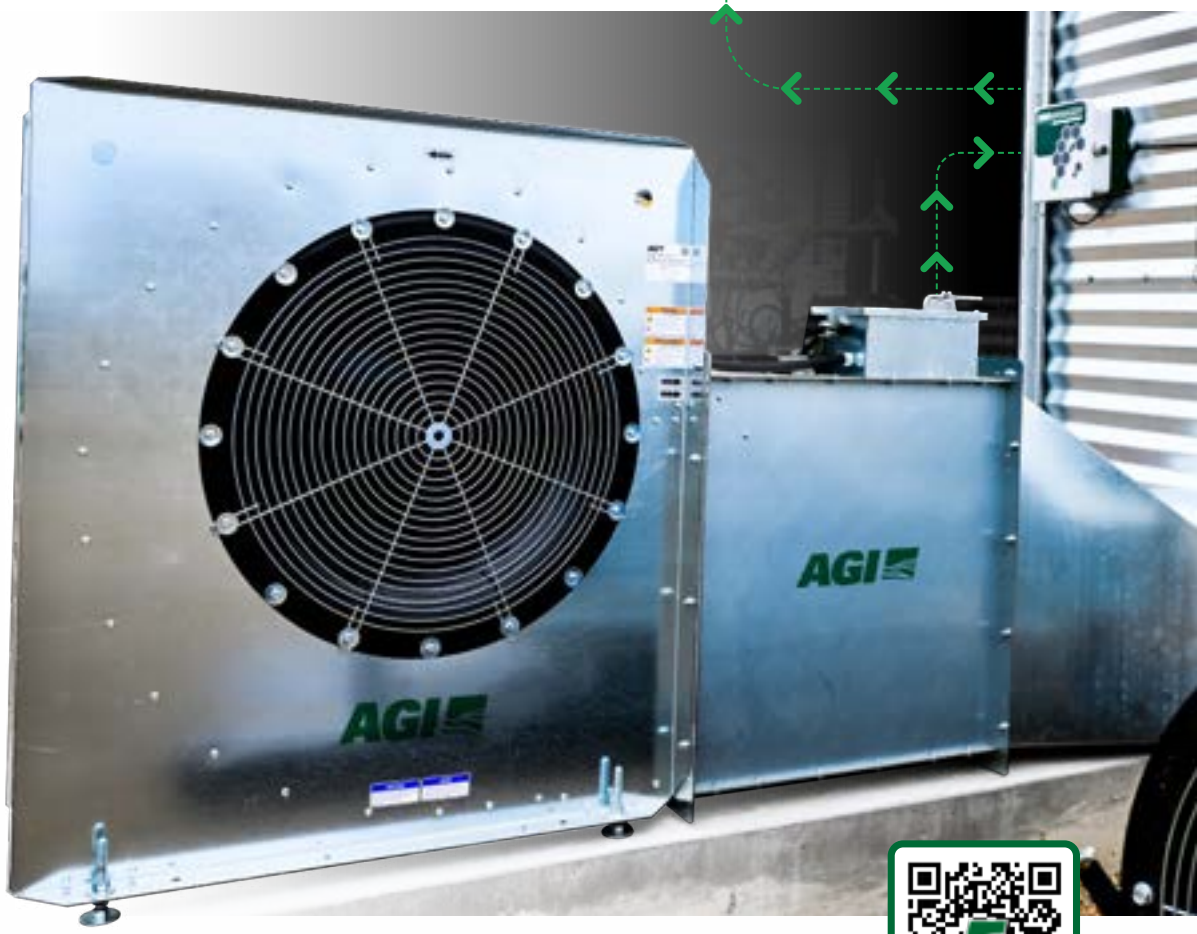
STAY ON TOP OF WHAT'S GOING ON IN YOUR BIN

AUTOMATION

Automate your grain conditioning

Determining when and how long to run fans and/or heaters can be a time-consuming process. AGI BinManager can automate fans and/or heaters to run only when productive air is present by using data collected from moisture and temperature readings throughout the bin and comparing it against conditions of the outside air and the air in the plenum.

- Characteristic-based algorithms determine the correct running times for fans and heaters
- Automating the conditioning process saves time and energy costs



MINIMIZE LOSS AND ENERGY COSTS

PROFITABILITY

Create premium marketing opportunities

Proper grain storage preserves and conditions grain, helping capture higher profits.

It's not enough to just fill your grain bins; you invest too much in your crop to run the risk of shrinkage or over-drying. AGI BinManager is calibrated to automate fans, moisture dry down, rehydration and cooling to achieve and maintain target moisture levels while maintaining protein, starch and oil content. As the industry-leading grain bin management solution AGI BinManager preserves and conditions your investment until you are ready to sell.

Grow for a purpose

Protecting your grain against factors that compromise quality is one of the most important things AGI BinManager does. Each AGI BinManager system maintains a unique algorithm fine-tuned to the conditioning and preservation parameters that will meet your operation's needs. By ensuring grain meets the exact specifications needed while waiting to be delivered to the buyer, AGI BinManager helps to ensure the profitability of your farm.

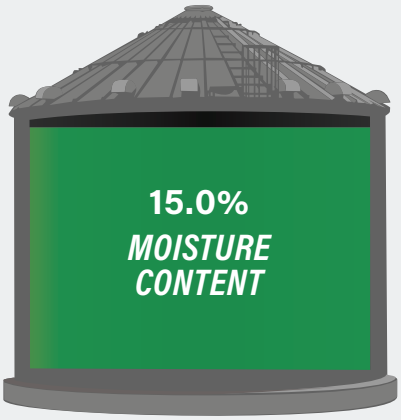
- **Create profit:** The AGI BinManager grain management solution is proven to preserve protein, starch and oil content while reaching target moisture levels.
- **Drive efficiency:** A fully automated system means that fans and heaters only run when needed. And full automation paired with specific calibration maintains optimal airflow within your bin at all times when paired with the correct fan.
- **Stay connected:** We value relationships. That's why our team monitors customer accounts daily to ensure no alert is ever missed — further protecting your livelihood.

SEE WHAT OUR FRIENDS AT WELKER FARMS HAVE TO SAY

CASE STUDY: CORN

MOISTURE CONTENT: 20% to 15% using AGI BinManager and fans

CONDITIONED BY AGI BINMANAGER



50,000	BUSHELS
1.17%	SHRINK FACTOR
5	POINTS REMOVED
$4	MARKET PRICE

1 YEAR SAVINGS

$8,556

5 YEAR TOTAL SAVINGS

$42,780

In a bin without AGI BinManager a 25% loss could be assumed due to mold damage at high moisture content. Final moisture content would vary from 18-12%, while with AGI BinManager it would maintain 14-15% moisture. This would create a difference of 2,139 bu.

FEATURES

Inventory

Continuous inventory readings are communicated to the online software platform.

Temperature

2-foot sensor spacing.

Moisture

Moisture readings automate natural air drying and monitor performance during storage.

Plenum

The plenum measures temperature, relative humidity and static pressure. These readings allow the automation of fan activity.

Fan automation

Characteristic-based algorithms determine the correct running times for fans and heaters. Automating this process saves time and energy costs.

Alerts

There are 14 different alerts you can customize receiving from AGI BinManager. Further customization is available through the setting of quiet hours.

Software

AGI SureTrack™ offers an integrated bin monitoring solution with real-time data, automated alerts and visibility on grain condition. Desktop and mobile device (iOS and Android) compatible.

Applicable storage types

Concrete, steel, hopper, full floor and flat storage. Contact us for installations over 110 feet tall.

DON'T MISS OUT ON	AGI BINMANAGER
BINS/CLUSTER (MAX)	20
CABLES/CLUSTER (MAX)	200
TEMPERATURE MONITORING	✓
MOISTURE MONITORING	✓
WEATHER STATION	✓
OPTIONAL INVENTORY MONITORING	✓
FAN HAND-OFF-AUTO SWITCHES (ON/OFF/AUTO)	✓
FAN/HEATER AUTOMATION	✓
AUTO DRY & COOL	✓
AUTO HYDRATE	✓
CELLULAR DATA CONNECTION	✓
HOURLY DATA REPORTING	✓
HISTORICAL DATA STORAGE	✓
USER FRIENDLY DATA REPORTING	✓
INTERNET ENABLED DEVICES	✓
AUTOMATED INVENTORY ESTIMATE	✓
TEXT/EMAIL NOTIFICATIONS	✓
LINE VOLTAGE	✓
ON-SITE COMPUTING	✓
POWER/USAGE CONTROL	✓
FAN/HEATER AUTOMATION	✓
COMPLETE FARM MANAGEMENT	✓
DATA SECURITY	✓
ANNUAL GRAIN ANALYSIS	✓
AGI SERVICE/WARRANTY TEAM	✓
AGI SURETRACK CUSTOMER SUPPORT	✓
HARDWARE/SOFTWARE UPGRADES	✓

Notes

* BCD can have up to 9 COM boxes. For applications, such as concrete silos, where no conduit is required to run cables from bin to bin, a single COM box can be used for multiple bins, and in this case, more “bins” can be in a cluster.
** For BCD, these 90 cables can be distributed among (up to) 90 bins. Intended application is for flat storage or concrete silos. AGI does not endorse applications where cables need cross open air to connect bins.
*** Weather station is ONLY for auto sensors on AGI BinManager for fan automation

LET'S TALK! 855.293.5607

AGI SURETRACK™

Your solution to greater profit

AGI SureTrack is a cloud-based software that pairs with AGI BinManager to capture and display what's happening in your bins.

AGI SureTrack is our intelligent software that's easy to access and intuitive to use. Accessible through the app or any internet connected device, AGI Suretrack allows you to see the data collected by AGI BinManager and make the decisions that allow you to maintain the highest quality crop.

AGI SureTrack provides:

Real-time data

Condition readings are taken on a frequent basis and data from the in-grain sensors across one or multiple bins is synced to the AGI SureTrack platform. These real-time moisture and temperature readings are viewable at any time.

Easy to monitor

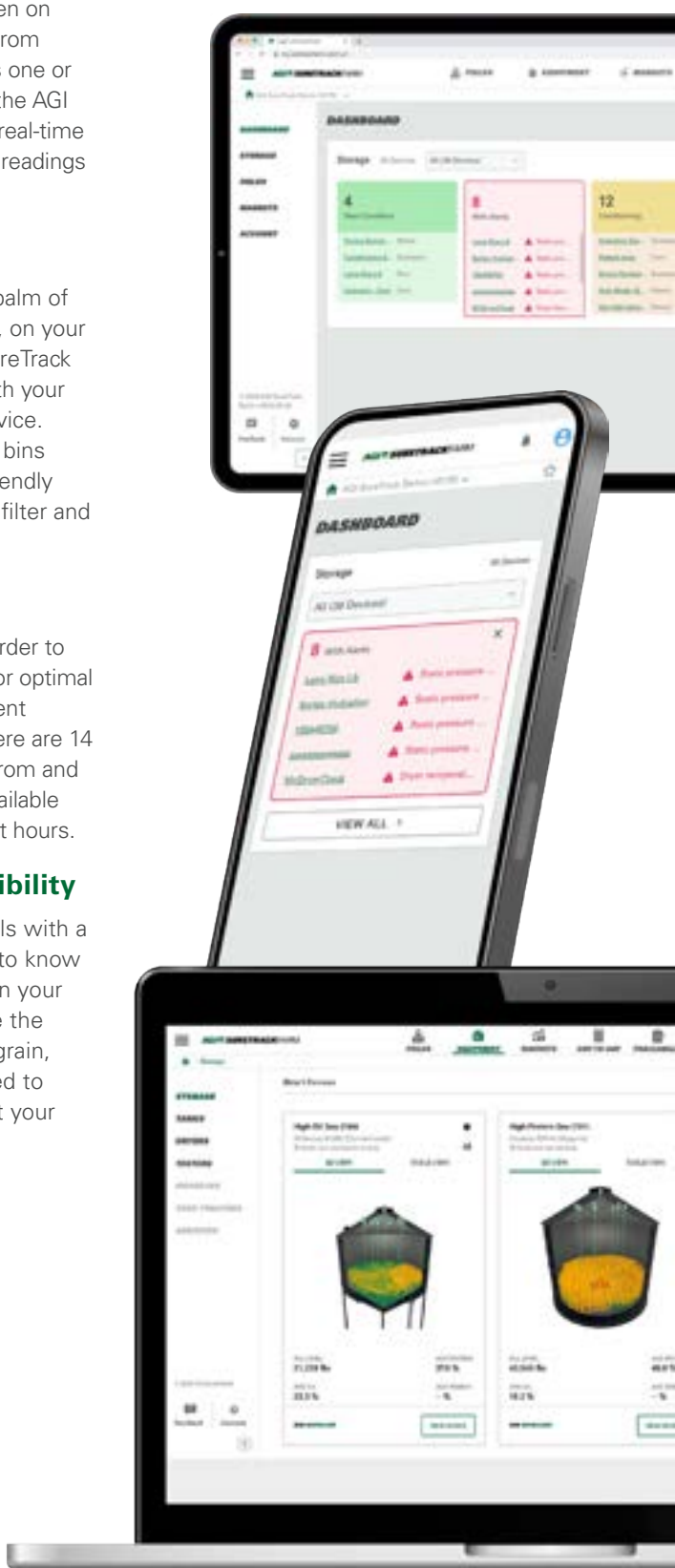
Monitor your grain in the palm of your hand from anywhere, on your phone through our AGI SureTrack FARM™ app, or online with your PC or other connected device. Data from one or multiple bins is synced onto the user-friendly online interface for you to filter and review.

Automated alerts

Alerts provide insights in order to help you make decisions for optimal storage conditions to prevent spoilage or over-drying. There are 14 different alerts to choose from and further customization is available through the setting of quiet hours.

Grain condition visibility

Simple tables or 3D visuals with a zoom feature enable you to know exactly what is going on in your bin. You can even animate the data of your conditioned grain, providing the proof needed to know your grain will meet your marketing goals.



WHAT DO FARMERS HAVE TO SAY ABOUT AGI BINMANAGER?

> When I took the grain out of the bin and hauled it to the elevator, it was all within a half-point from top to bottom and one-fourth point from my target moisture...I couldn't believe the energy savings!
>
> **— John Krueger**

> It's the most efficient system that I've ever dreamed of that could put moisture back into soybeans. I think it's going to pay for itself extremely fast.
>
> **— Chuck Myers**

SEE WHAT OUR FRIENDS AT WELKER FARMS HAVE TO SAY

Safety first

Priceless

An organic grower in Iowa, with over 650,000 bushels in storage at one time, is able to enhance value by storing his entire harvest throughout the year because of AGI BinManager's accuracy. He can know what is happening in his bins without even touching the ladder. This grower also values the AGI customer service approach. He says, "There is no one like the AGI SureTrack customer service team. They take excellent care of my bins and always over-communicate."

Calm after the storm

$750,000 loss prevention

A customer in Illinois started out with AGI BinManager for two of his 150K bu. bins. The grower was out of town when a storm hit his farm. He was notified by the customer service team immediately when a bolt of lightning struck one of his grain bins and killed the fan power. He could see on the AGI SureTrack mobile app that the grain temperature had reached 140° F. The next day, he returned home and began the trouble-shooting process with the customer service team. A board within the system was fried and AGI had a technician out within 24 hours. He was able to save the grain in the bin. The grower said, "AGI BinManager gave me the tools I needed to be successful, make money and save my entire bin." The customer expanded his farm technology by adding AGI BinManager to every bin.

24-HOUR CUSTOMER SERVICE

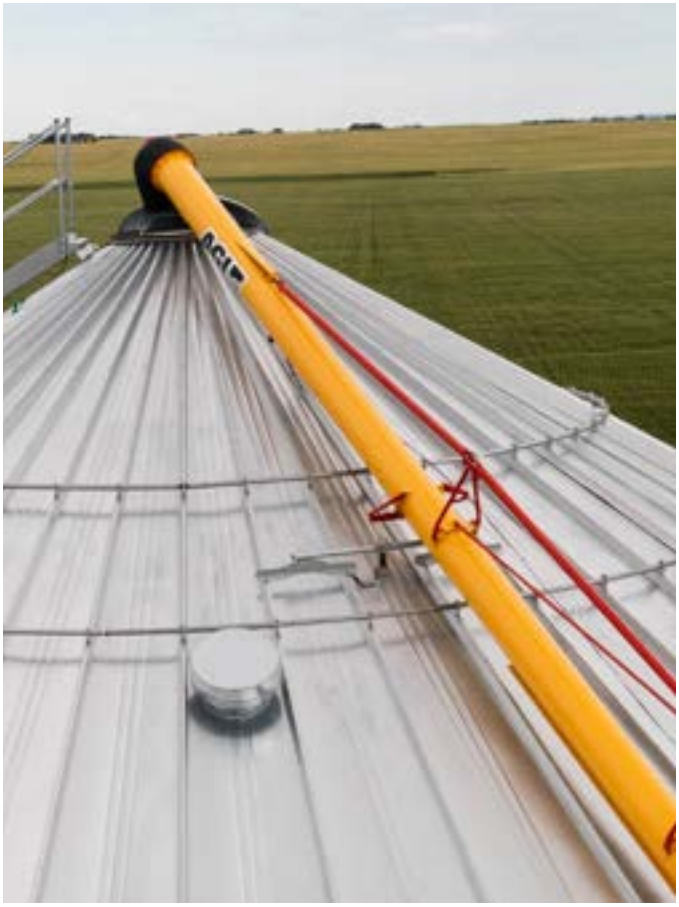
We are an extension of your farm, here to help at every turn and working to increase the value and profits of your operation.

We provide:

On-site consultation and support	24/7 customer support by phone	Customized solutions to meet the needs of your commodity and your operation	Safe, secure AGI SureTrack account, customized to your operation

LET'S TALK! 855.293.5607

OUR PORTFOLIO



PORTABLE HANDLING

From swingaway to straight augers, belt and chain conveyors, grain vacs and seed treaters, AGI has the solution to move your grain gently and efficiently in and out of bins, dryers and trucks.

PERMANENT HANDLING

With bucket elevators, en-masse and bulk flow conveyors, towers, catwalks and ladders, AGI offers standard sizes and capacities, as well as, custom designs to fit your operation.

STORAGE SYSTEMS

Every AGI storage system is engineered for strength, safety, accessibility and outstanding value. With a wide offering of flat bottom and hopper bins, and all the needed accessories from sweeps and unloads to stairs and ladders, AGI offers complete storage solutions.

CONDITIONING & AERATION

AGI has a complete lineup of conditioning and aeration equipment to fit your needs. From fans, heaters, ducting and transitions to mixed flow dryers with optional, patent pending, pre-cleaner systems and remote monitoring, everything is designed to manage airflow to keep grain conditioned and prevent spoilage.

AGI

AGI is a global leader in supplying farm and commercial customers with the manufacturing, planning, and engineering of full equipment solutions for grain, seed, fertilizer, feed, and food. AGI's expertise enables the storage, blending, mixing, conveying, conditioning, processing, and protection of agricultural products and inputs worldwide.

SEE OUR FULL PRODUCT PORTFOLIO

Your safety is our highest priority.

Please read and understand the operator's manual and safety decals before using. Use and maintain products properly, and do not modify. Keep guards in place when operating and follow all product manuals and safety decals. For all AGI products, if guards, safety decals, or manuals are damaged or missing, contact your AGI sales or dealer representative for replacements. Images and information contained in this brochure are presented for general information.

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