

Easy-to-use software connected to proven mixer weighing

Precision Feed Management



WHY
MANAGE FEED

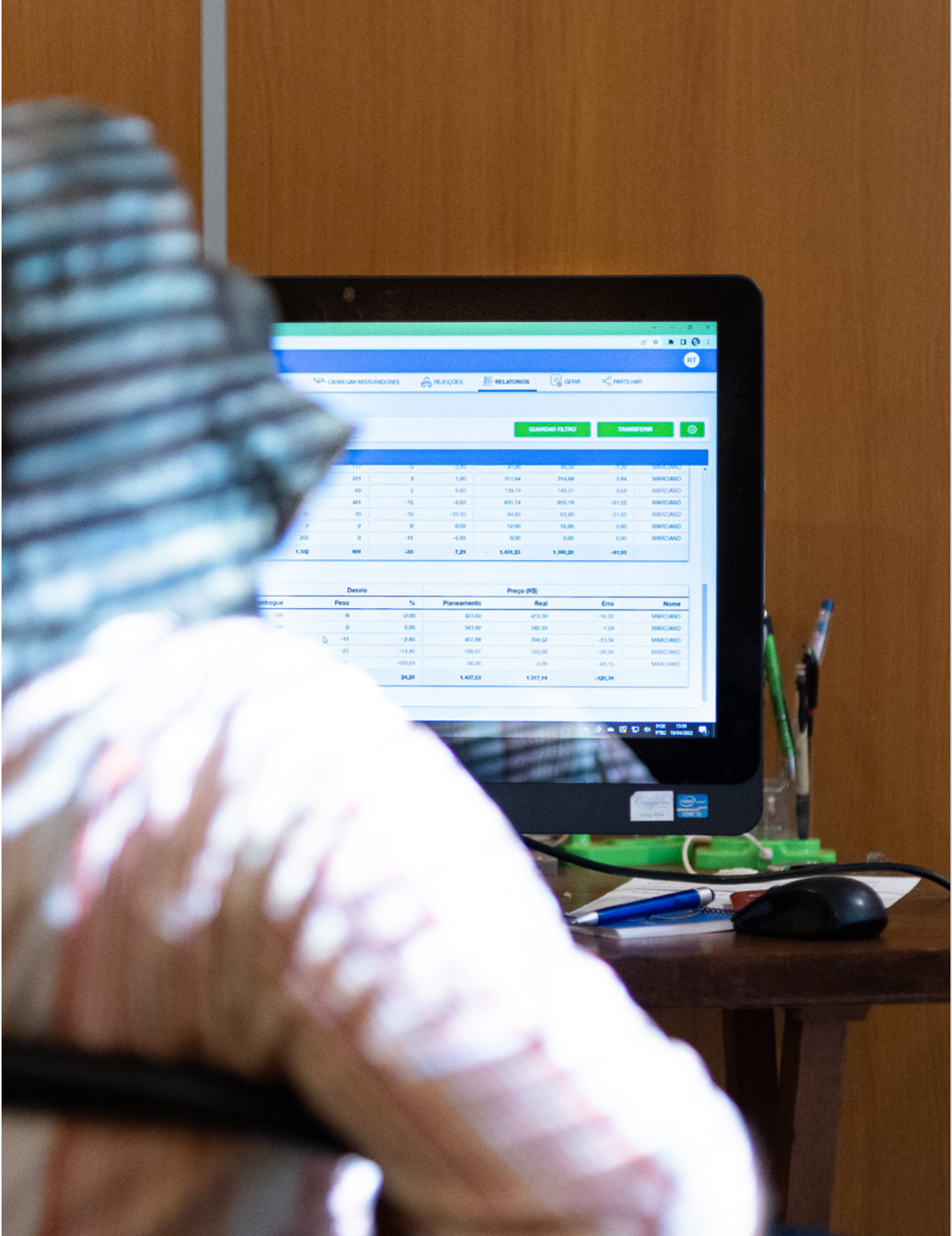
THE
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APPLICATIONS

PARTNERS &
INTEGRATION

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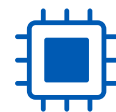
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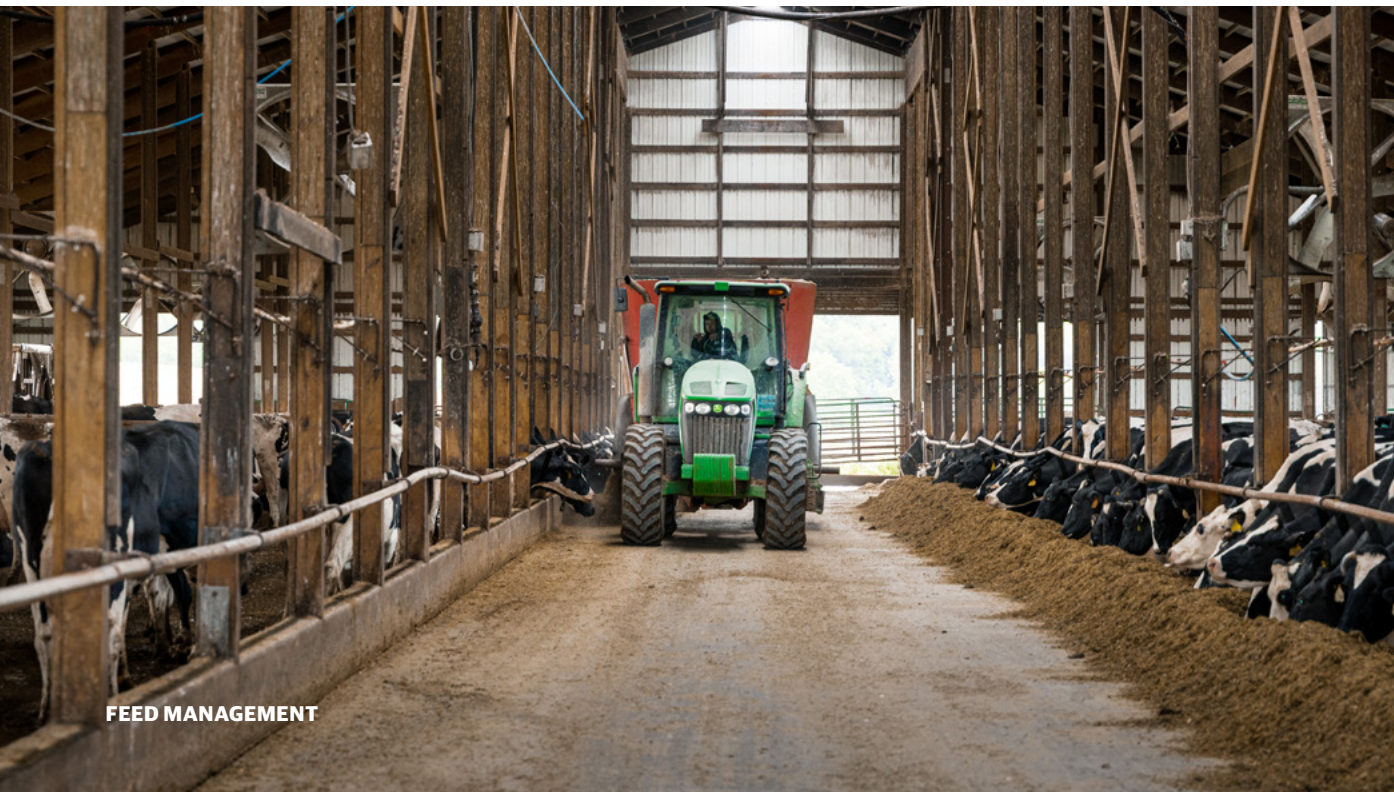
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Topcon Agriculture

Precision hardware, software and data to bring efficiency and enhanced productivity to every phase of your farming operation.





FEED MANAGEMENT

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Why manage feed

As cost increases and margins squeeze, livestock farmers need solutions that reduce inputs and increase production. With feed accounting for over 50% of operating costs and significantly impacting performance, precision management is essential for profitability.

Feed management solutions allow users to manage and track feed loads to improve efficiency, reduce waste, and support calculated management strategies. While many farmers still use hand-written feed sheets or complicated software, we offer easy-to-use technology that simplifies software integration. Our solutions seamlessly connect loading hardware and management software, improving efficiencies, reducing costs, and optimizing production.



Optimize inputs

Feed just what they need

Feed mixers and precision weighing systems radically improve efficiency. Mixers are required to effectively combine ingredients and weighing technology to load an accurate TMR. While digital weighing solutions are commonplace, planning can be broad and disconnected. Feed management software is the next step to improved planning efficiency with similar, disruptive value to that of weighing solutions.

Solutions go beyond eliminating repetitive handwritten entries; they create a connected framework that enables input optimization and tracks performance for improved production. Users can precisely build feed schedules, delegate to operators, and automatically track for further improvement.

Digital feed management reduces shrink and operating costs. Mixer weighing prevents overloading, resulting in refusals or underloading, which impacts production. Management software facilitates optimization, directly correlating to input costs.



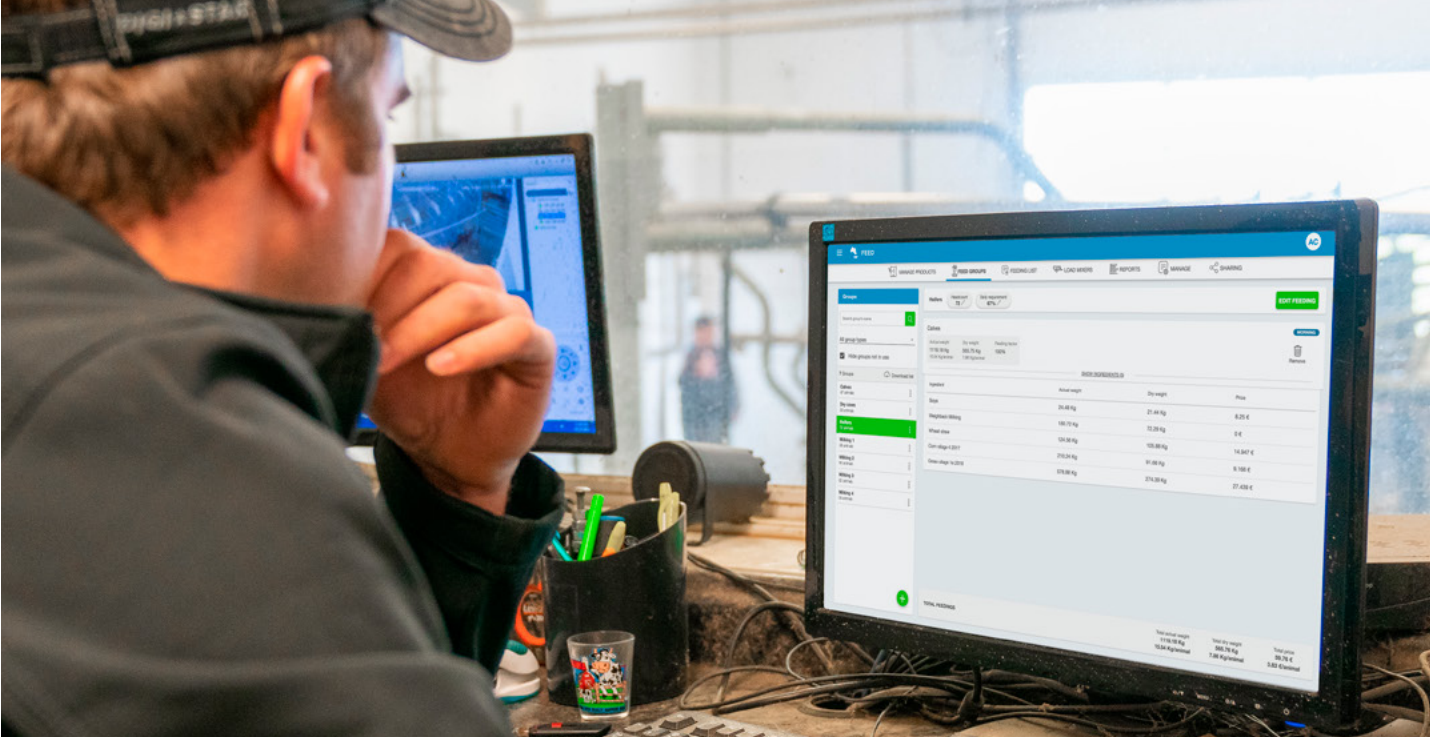
Load
Accurately



Eliminate
Repetition



Streamline
Management



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Organize data, derive insights, boost production

It's no secret that diet directly impacts production. While weighing technology enables consistency, software enables fine-tuned practices. Solutions log feeding activities to establish accurate data for analysis and improvement. Maximizing production is important, but the reality is, optimizing is more profitable. Diminishing returns should always be considered. For example, dairy farms analyze dry matter intake efficiency to measure a cow's relative ability to convert nutrients into milk. While feeding more dry matter is a generally viable strategy, the actual cost (e.g., increased feed input cost) may be more than the milk produced.

Many farmers work with advisors, consultants or nutritionists to support feed management plans. Software provides invaluable benefits that streamline and support the relationship. Through a connected ecosystem, advisors can seamlessly provide feed plans directly imported into mixer weighing systems and followed by operators. Weighing solutions can automatically capture exactly what was fed, so more insightful analysis can be obtained. Feed software combined with feed mixer weighing provides the data quality necessary for impactful management strategy.



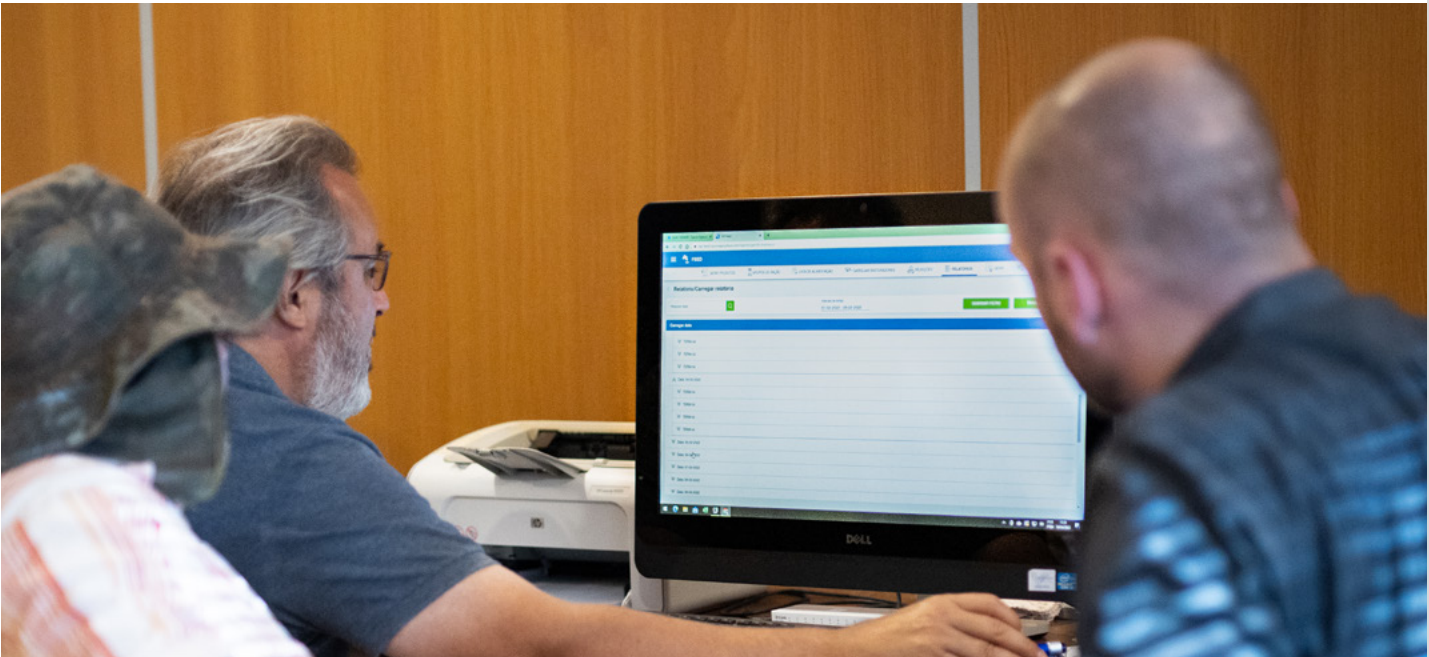
Automatically
Collect Data



Analyze to
Improve



Share
with Advisors



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Easy-to-Use Feed Management Software

TAP FEED Software

Building upon its predecessor, TMR Tracker, TAP FEED is the latest evolution in feed management. Our software is cloud-based and tied to our load indicators or convertors via Bluetooth using the TAP FEED App, wired serial port connection using the TMR Flex Pro solution, or our legacy USB and radio data transfer methods. The software provides a modern and intuitive interface with core feed management capability, plus advanced features for dairy and feedlot operations. Through a variety of subscription options from basic to advanced, farmers can manage products, feeding groups, mixer loads, feedings, operators, and more. Efficiently create and export comprehensive reports that can be easily shared with advisors.

TMR Tracker Software

TMR Tracker is a multi-featured Windows® based software that provides livestock farmers with a total solution to manage feed cost, promote efficiency and improve production. Feed ingredients, recipes, production groups and feed mixer information are entered into the platform. Wireless connections or a USB stick send data to the indicator in the cabin or on the feed mixer. This displays the ingredient to be fed, its weight and the corresponding group information. During feeding, the actual weights loaded and delivered are saved and sent back to the PC.

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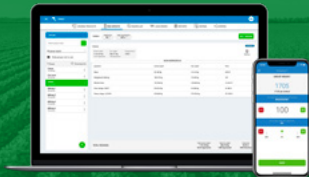
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TAP FEED Subscriptions and add-ons for any livestock operation

Digital feed management for any operation



TAP FEED Lite

TAP Feed Lite is the perfect solution for any Dairy or Feedlot that is looking for basic feed management information. It allows you to create ingredients, recipes and premixes, as well as schedule pen deliveries to one or multiple pens per load. Track refusals by pen to fine-tune Dry Matter Intakes and view key reports.

Advanced capability tailored for dairy operations



TAP FEED Pro

TAP Feed Pro is for the livestock operation that needs more recipe design options, additional reports or those reports emailed to employees or trusted Advisors. Improve tracking and utilization of refusals, streamline loads with Add Ingredient to Base Mix, lock delivery weights to pens with Locked Feedings or link pens to a mixer using Zone Control.

Advanced capability for feedlot operations



TAP FEED Feedlot

Valuable for any feedlot operation who needs to track feed or other costs by Lot or by Owner. Easily manages ingredients, recipes, animal pen movements, bunk scores and operators. Efficiently create and export comprehensive reports that include operator accuracy, commodity usage and lot closeout summaries.

Streamline data and management between feed advisors and farmers



TAP FEED Advisor

Designed to optimize the feed management workflow between consultants, advisors, and farmers. Remotely monitor activities, create reports, analyze use, and provide valuable insights for improved customer profitability, all in real-time. Easily align and connect your business, including a "sub-advisors" framework to support lasting customer relations.

Consider TAP FEED software add-ons for more control



TAP FEED Link Add-On

Connect any TAP FEED subscription to third party feed management software to share key data. Link head count and milk production from herd management software.

TAP FEED Inventory Add-On

Track commodity stock, daily usage and out of stock dates. Easily enter commodity deliveries for accurate inventory levels.

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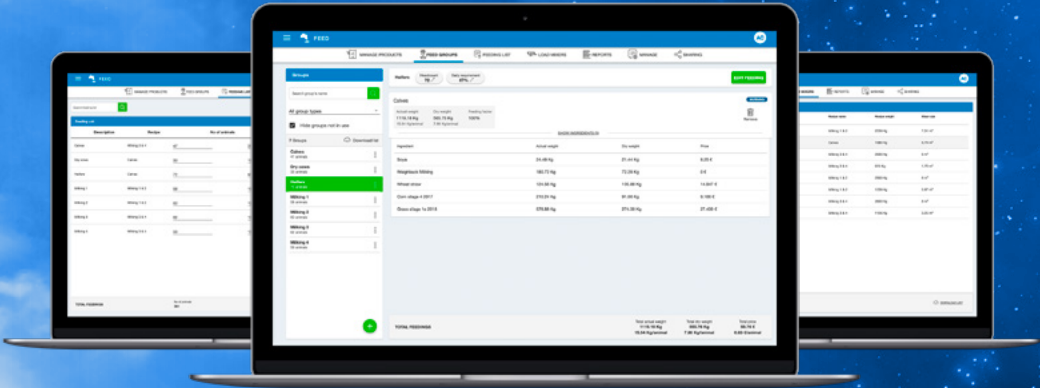
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Full Spectrum of Feed Management Features

Click on the boxes to see more details.

TAP into Connected Feed Management



Modern feed management software
tied directly to the mixer.

Click here:



TAP FEED App, Basic Feeding System

The TAP FEED App solution comprises a free mobile app compatible with the latest lineup of Bluetooth Digi-Star indicators and convertors (aka Scale Link) and a paid subscription to TAP FEED Lite, Pro or Feedlot software (30-day free trial available). It's ideal for any dairy or feedlot looking for basic feed management. Data is easily synchronized between TAP FEED software and the TAP FEED app via local Wi-Fi or your mobile devices cellular connection, to provide a streamlined workflow. Setup your daily feeding schedule in the software, transfer the data to the TAP FEED app, perform your loading activities, and find data automatically uploaded to TAP FEED software to track and analyze. With your Digi-Star Bluetooth indicator acting solely as a simple weight source, the TAP FEED App will become your primary load monitoring display, traveling with you as you move from the loader to the mixer tractor for deliveries. The TAP FEED App solution is smart for basic operations and single operators that utilize a single mixer. Consider the TMR Flex Pro solution if you have multiple operators, need multiple displays, and use multiple mixers.

Featuring

Mobile App available on Android or iOS devices

Automatic data transfer of loading activities via local Wi-Fi or your device's cellular connection

Single device system. Mobile device travels between mixer and loader

Special recipe types available (TAP FEED Pro and Feedlot subscriptions only)

TAP FEED Lite, Pro or Feedlot

TAP FEED App

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TMR Flex Pro, Premium Feeding System

The TMR Flex Pro solution comprises the Digi-Star FD1 tablet, CL-55 data transfer device, and a paid subscription to TAP FEED Pro or Feedlot software. It's ideal for any dairy or feedlot looking for advanced feed management. ata is seamlessly synchronized between TAP FEED software and TMR Flex Pro via the CL-55's integrated cellular connection, providing a streamlined workflow. Setup your daily feeding schedule in the software, refresh your feeding plan in TMR Flex Pro, perform your loading activities, and find data automatically uploaded to TAP FEED software to track and analyze. The Digi-Star FD1 tablet combined with CL-55 data transfer device connects to your existing Digi-Star indicator or convertor, providing an easy path to upgrade including multiple display functionality. Users can even add additional Digi-Star FD1 tablets if more displays are desired. Through the Digi-Star FD1 tablet, you can also manage advanced feeding features from inside the cab without going back to the office and adjusting in TAP Feed software. The TMR Flex Pro solution is smart for larger operations and multiple operators requiring multiple displays.

Featuring

Upgrade addition to an existing display with serial port

Automatic feeding results transfer via CL-55 integrated cellular connection

Add multiple Digi-Star FD1 tablets for increased flexibility

Record refusals, adjust dry matters and use refusals as a custom ration ingredient

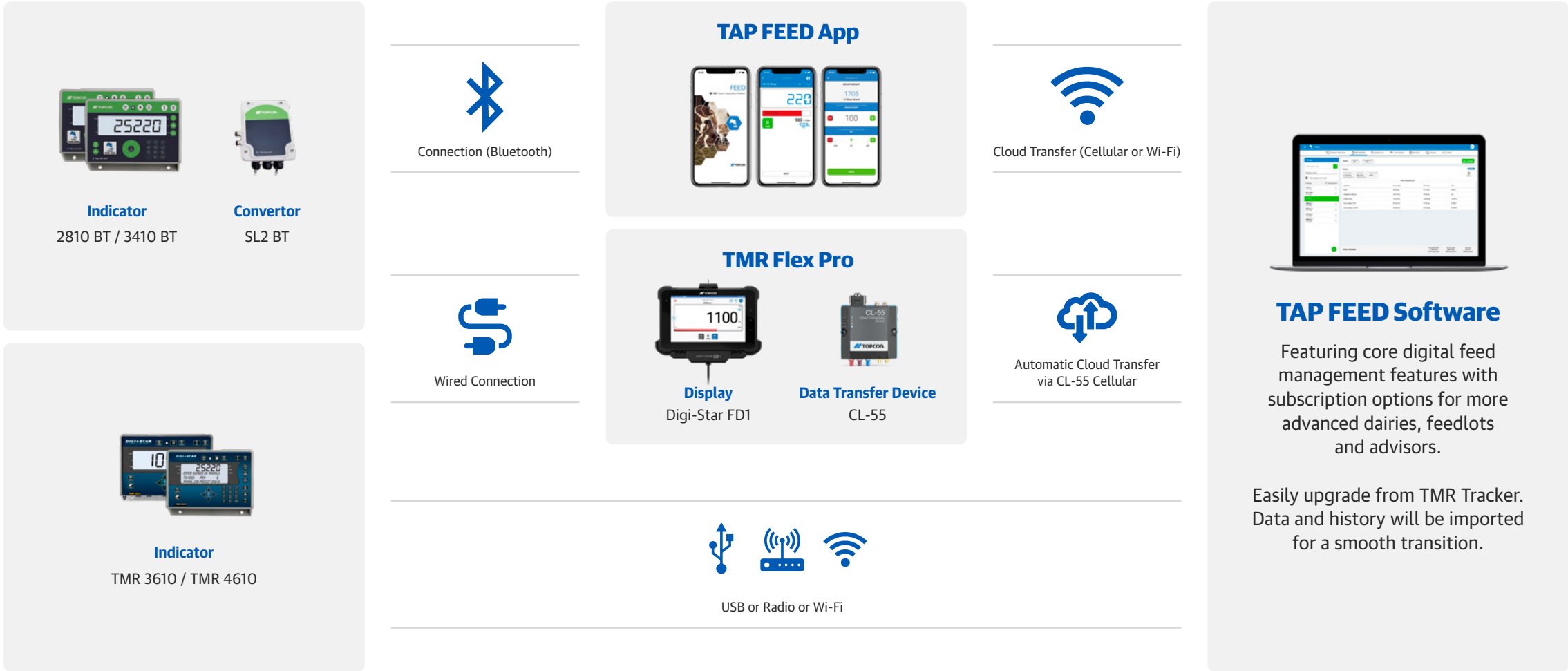
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How it Works (TAP FEED)



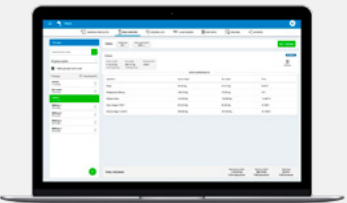
- TMR Flex Pro can connect with all indicators referenced on this page plus many other legacy indicators. Chat with a Topcon sales representative for a full compatibility list.
- Legacy Digi-Star indicators, including the EZ3600, EZ4600, TMR 3610, TMR 4610, and TST 7600 are compatible with TMR Tracker Software and TAP FEED Software.

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TAP FEED Software

Featuring core digital feed management features with subscription options for more advanced dairies, feedlots and advisors.

Easily upgrade from TMR Tracker. Data and history will be imported for a smooth transition.



Proven Feed Mixer Weighing

For accurate load monitoring, we offer a variety of indicators and a convertor (aka Scale Link) option that complement your machines and feeding approach. Via the TAP FEED App basic feeding system or TMR Flex Pro premium feeding system, our load monitoring hardware easily connects to TAP FEED software, enhancing and streamlining your feed management workflow.

Featuring

Highly accurate load monitoring and logging technology

Complementary software (TAP FEED or TMR Tracker), tied directly to the weighing workflow

Rugged and reliable indicator options

Streamlined connection options between hardware and software, including the TAP FEED App and TMR Flex Pro

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Reliable Load Monitoring Hardware Options

Indicator Digi-Star 2810 BT



- Bright and large LCD display
- Provides Dual Serial Port (J905)
- TAP FEED software ready via TAP FEED app or TMR Flex Pro solution

Indicator Digi-Star 3410 BT



- Bright and large LCD display
- Internal batching program
- Memory to 200 ingredients
- Provides Dual Serial Port (J905)
- TAP FEED software ready via TAP FEED app or TMR Flex Pro

Converter Digi-Star 2010 BT



- Standalone functionality for automatic loading feed mixers
- Optimizes investment when an indicator for manual loading isn't needed
- ISO-UT display compatibility
- TAP FEED software ready via TAP FEED app or TMR Flex Pro

Indicator Digi-Star TMR 3610



- Bright LCD display
- Provides Dual Serial Port (J905)
- TAP FEED software ready via TMR Flex Pro solution
- Compatible with legacy TMR Tracker Software*
- USB data export ready (Optional Radio or Wi-Fi upgrade options to export data to TMR Tracker Soft

Indicator Digi-Star TMR 4610



- Bright LCD display
- 3 line display with additional loading information
- Provides Dual Serial Port (J905)
- TAP FEED software ready via TMR Flex Pro solution
- Compatible with legacy TMR Tracker Software*
- USB data export ready (Optional Radio or Wi-Fi upgrade options to export data to TMR Tracker Software)

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Looking for more load visibility?



Remote Display Digi-Star RD 440

- Clear 1" LCD display with alarm light
- Compatible with all Digi-Star indicators



Remote Display Digi-Star RD 2500V

- Large 1.7" LCD display with alarm light
- Bright LCD backlight for dark conditions
- Compatible with all Digi-Star indicators



Remote Display Digi-Star RD 4000

- Large 4" LED ultra bright display
- Lighted load progression bar
- Visor available as an accessory
- Compatible with all Digi-Star indicators

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Complementary Weighing Technology



Universal Livestock Weighing*

Built for the harsh and variable demands of agriculture with a variety of indicator and deck combinations, our livestock weighing solution provides basic load monitoring.

*Not available in the EMEA region.



Loader Weighing

Designed for loaders and forklifts, our solutions combine an integrated sensor measuring hydraulic pressure with an easy-to-use display – providing accurate, real-time load measurements.



Tipping Trailer Weighing

With options for single or multiple tipping trailer configurations, easily track and clearly display load measurements.

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From Field to Feed. Complementary Crop Production Solutions.



Guidance and Steering

Topcon offers flexibility. Whether it's manual- or automatic guidance, we have a solution for your needs. Our manual guidance solutions offers an easy-to-follow on-screen lightbar for basic applications, while our automatic guidance steering lets you go hands-free for many applications.



Spraying Control

We offer a range of spraying control variants to suit any operation size and crop type. From basic automatic rate control based on forward speed, following digital nutrient management plans tied to field-position, or on-the-go sensors to apply the right rate based upon crop health, our solutions help you reduce key inputs while maximizing yield.



Spreading Control

Spreading control automatically applies inputs based upon nutrient management plans to optimize resources and boost yield. We offers automatic speed-based or optional position-based monitoring and control to precisely follow plans, eliminate overapplication, and optimize fertility.

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Click on the image to watch a video.

Use case

Pennwood Dairy Chooses Accurate Data Over Hope

Raised on the farm with professional experience working for a nutritionist, Duane Stolfus, feed manager at Pennwood Dairy in Pennsylvania, USA, understands the importance of accurate data. He knew the operation needed to precisely track what they were feeding to make better decisions and gain more value from their advisor. Since adopting TAP FEED Lite, Duane feels confident in analyzing key production metrics, such as dry matter efficiency, and energized by streamlined workflows.

TAP FEED Lite provided:

- 1 Accurate feed data to help control feed costs
- 2 Streamlined reporting and sharing with advisors
- 3 Deeper analysis and optimization



Click on the image to watch a video.

Use case

Measurement is Tilburg's Solution for Stable Rations and Healthier Cows

Managing over 160 head in Groningen, Netherlands, Jan-Pieter Van Tilburg seeks to optimize the health impact of his feed management strategy. He believes consistency is crucial and is only accomplished through precision measurement. Taking advantage of the full feature set, from the mobile app as in-cab display to analyzing performance on the backend, Tilburg notes how much easier TAP FEED makes his feeding workflow. With better data, he's looking to reduce the concentrate ratio in his mix while maintaining production.

TAP FEED Lite provided:

- 1 Streamlined workflow improving efficiency and reducing stress
- 2 Accurate feed data to lower costs
- 3 Insights through livestock and employee performance reports



Click on the image to watch a video.

Use case

Software fuels efficiency at Misty Morning Dairy

Based in Western Washington, USA, Misty Morning Dairy needed a more streamlined approach to manage over 1700 dairy cows. Previously using paper feed sheets and manual entry, TAP FEED not only reduced work and error, it provided valuable insights to improve production. With accurate data through coordinated mixer weighing technology, Misty Morning has gained confidence in their strategy and process.

TAP FEED Pro provided:

- 1 Streamlined workflow, drastically reducing manual labor and error
- 2 Insights to increase production and reduce costs
- 3 Improved confidence in labor and feed adjustments



Empowering Your Work

As a worldwide leading developer and manufacturer of precision positioning workflow solutions, we help the people who build and feed the world work smarter and faster.

The technology we provide brings increased accuracy, saves time, boosts productivity and efficiency, and lowers expenses, all resulting in greater profitability for you.

Seemingly impossible jobs can be possible because we empower you to do more with less. Projects can be completed with fewer skilled workers with less re-work.

SPEED TO MARKET | GLOBAL NETWORK | EXPERIENCED OEM TEAM

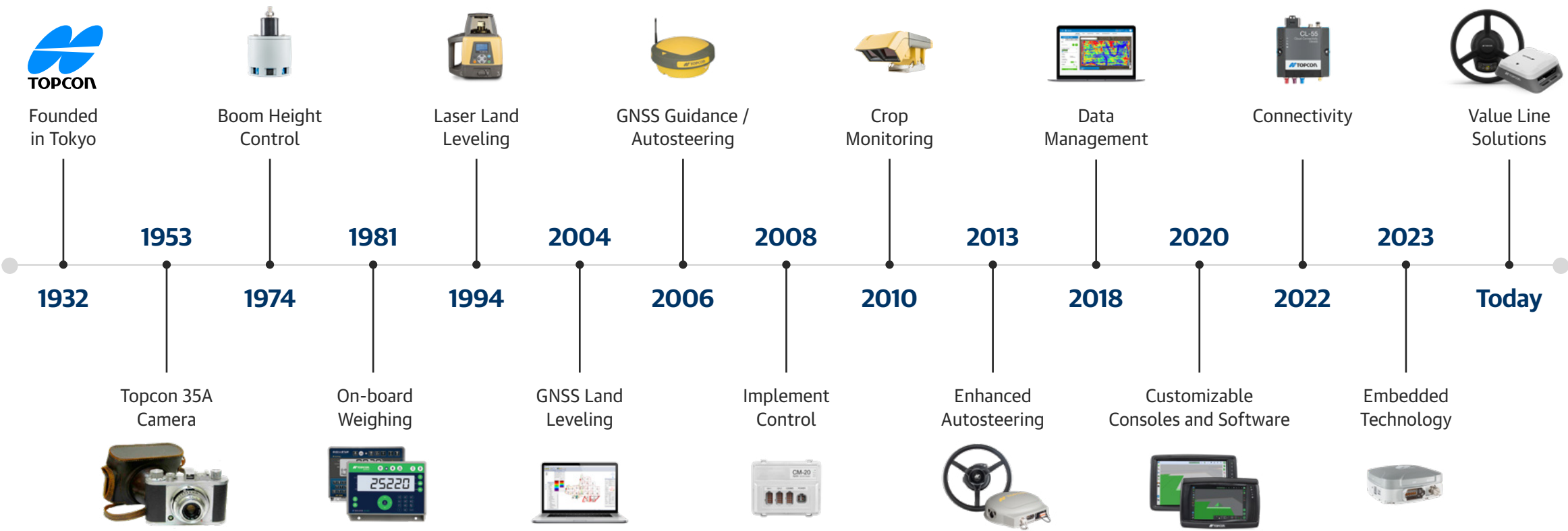
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A History of Topcon Corporation in Agriculture



Note: displays current product images in reference to when development began.

Unleash Your Potential

We provide innovative yet intuitive solutions that integrate high-precision measurement technology, software, and data for the construction, surveying, and agriculture industries. By embracing our solutions, our customers can:

- Accelerate infrastructure creation and repairs, ensuring safety and cost-effectiveness
- Efficiently gather and handle vast amounts of data, reducing field time
- Maximize crop yields and returns, all while minimizing environmental impact and preserving natural resources.

We're here to make complex tasks easier – so you can work smarter, not harder.



Topcon Training Center,
Livermore, CA

Topcon Technology
Roadshow Truck

Topcon Positioning Systems
Headquarters, *Livermore, CA*

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4900+ Employees | nearly 3500 Patents

Global Network

With an extensive worldwide network of corporate offices, R&D centers and technical groups, we have an unmatched capability to assist any manufacturer, no matter where they are located, with fully integrated machine automation solutions. This also positions us to create programs to assist and support dealer networks, directly or through extensive training programs.

Experienced OEM Team

Our experienced OEM team knows what questions need to be answered first and the potential pitfalls to be avoided along the way. Their first objective is to make sure our technology is the right fit for your application and be your partner every step of the way.


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Easily Integrated Modular Technology




Guidance

Consoles


Steering




XC1




XC1 plus




XW-1



ACU-1




EHi Valve




Correction Services

GNSS Receivers

Base Stations & Reference Stations Network



XR-1




Digital Farm Management

Data Software

Connectivity

Click a product block to be directed to the respective web page.

Customizable Solutions for Every Application



Soil Preparation

Landforming and Drainage

Tillage

Strip Till Control

Hardware

MC-X1 / GR-i3F Controller/Receiver

GC-35 Controller/Display


HCM1 Controller

MS-1 Ultrasonic Sensor

Software

AGForm-3D Survey/Design

ISO BUS



Seeding

Seeding

Planting

Hardware

Apollo CM-40 Controller

Artemis AS-1X Controller


MFDC 100 Seed Drill Monitor

CAN Motor

Software

ISO BUS

ISO BUS



Crop Care

Spreading

Spraying

Crop Monitoring

Hardware

SM-1X Controller

SL2 Convertor (Weigh)

CM-40 / CM-20 Controller

HCM1 Controller

CM-20 Controller

LMS-20 Sensor

H2 Spraymaster

MS-1 Ultrasonic Sensor


Software

ISO BUS

ISO BUS

Click a product block to be directed to the respective web page.

Customizable Solutions for Every Application




Harvest


Yield Monitoring

Grain Cart Weighing


Hardware




YM-3 Controller




Optical Sensor




YM-2 Controller



Moisture Sensor




Load Sensor




Load Sensor


Software



ISO BUS



ISO BUS




Weighing

Material Handling / Onboard Weighing


Universal Weighing

Livestock Weighing


Hardware




Pressure Sensor




SL2 Convertor




Indicator SW4600EID




Indicator Cab Control App




Weighing Platform




Load Sensor



Pressure Sensor




Load Sensor




Feed Management

Feed Mixing


Hardware




Indicator/Data Transfer Digi-Star FD1 / CL-55




Indicator EZ 2810BT / 3410B




Indicator TMR 3610 / 4610




Indicator TST 7600



ERM Wi-Fi Module




SL2 Convertor



Load Sensor

Software



TMR Tracker

Click a product block to be directed to the respective web page.

FEED MANAGEMENT

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Committed to Sustainability

The work we do as an organization complements and supports the sustainable development goals adopted at the UN Summit in 2015.

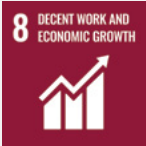
"The Sustainable Development Goals are the blueprint to achieve a better and more sustainable future for all. They address the global challenges we face, including poverty, inequality, climate change, environmental degradation, peace and justice."

To learn more about our commitment to sustainability visit:
topconpositioning.com/sustainability



Zero Hunger

Our tools improve the management and measurement of cropping areas and sustainable agriculture. Through automation, we are helping create more productive crops and increase harvests, which leads to an improved food system and less food shortages.



Decent Work and Economic Growth

Our solutions enhance efficiency and productivity in agricultural operations, driving sustainable economic growth. By reducing manual labor and improving operational precision, we enable farmers to optimize resources, create jobs, and promote safer, more efficient working environments. This results in thriving rural economies and contributes to long-term, sustainable growth for both people and the planet.



Industry, Innovation and Infrastructure

We help farmers be more productive through proven, innovative agricultural precision measurement technology, resulting in increased productivity, larger yields and reduced labor.

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topconpositioning.com

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