

Easy-to-use software connected to proven mixer weighing

Precision Feed Management



WHY
MANAGE FEED

THE
TECHNOLOGY

APPLICATIONS

PARTNERS &
INTEGRATION

Table of contents

Navigate sections by clicking the buttons below.

WHY
MANAGE FEED

THE
TECHNOLOGY

APPLICATIONS

PARTNERS &
INTEGRATION





WHY
MANAGE FEED

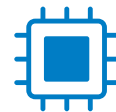
THE
TECHNOLOGY

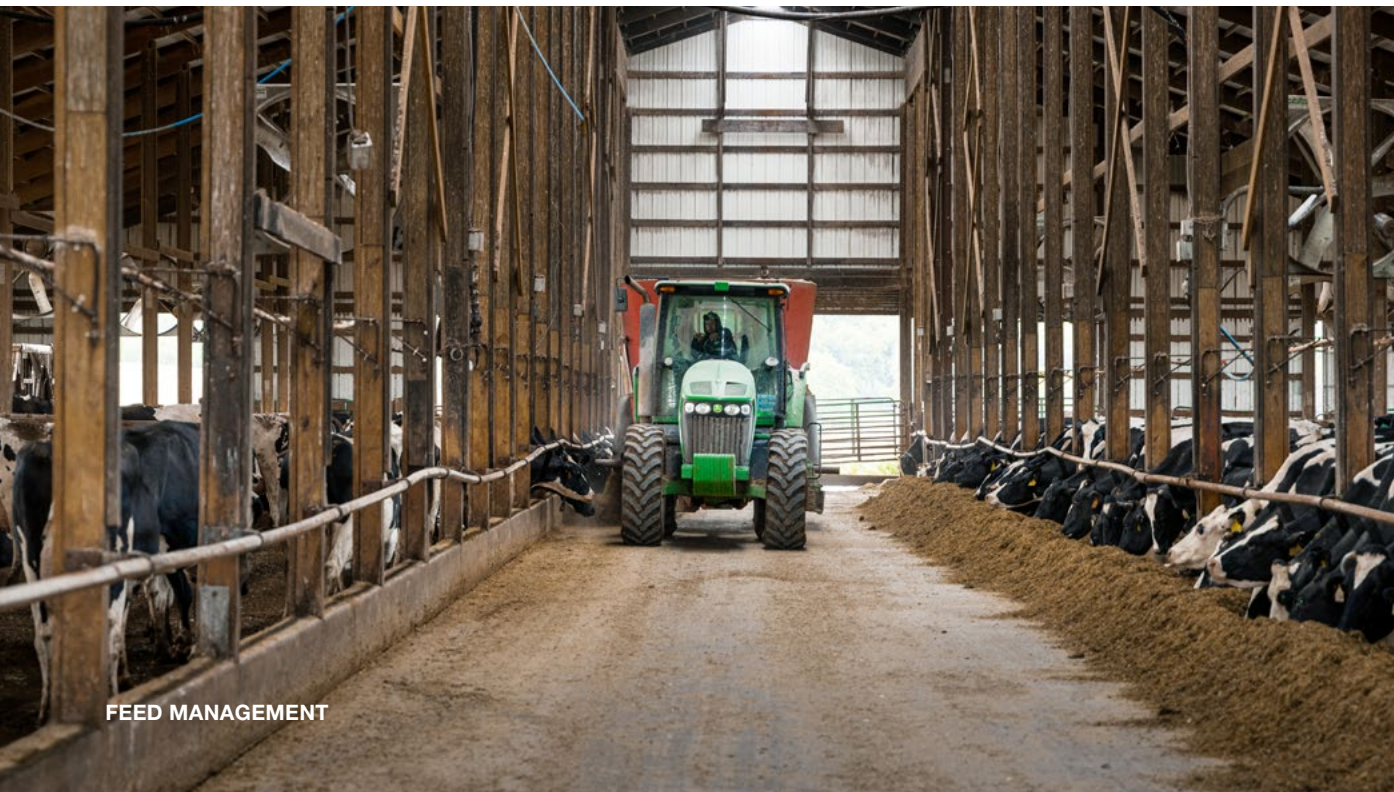
APPLICATIONS

PARTNERS &
INTEGRATION

Topcon Agriculture

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





FEED MANAGEMENT

WHY
MANAGE FEED

THE
TECHNOLOGY

APPLICATIONS

PARTNERS &
INTEGRATION

Why manage feed

As competition 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 mixers efficiently combine ingredients, forming a total mixed ration (TMR). Mixer weighing systems allow users to manage and track feed loads to improve efficiency, reduce waste, and support calculated management strategies. While many farmers continue to manage with hand-written feed sheets, connected software, eliminating paper and streamlining the workflow is the next evolution of operation management. Solutions improve efficiencies, reduce costs, and optimize production by tracking exactly what was fed.



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.



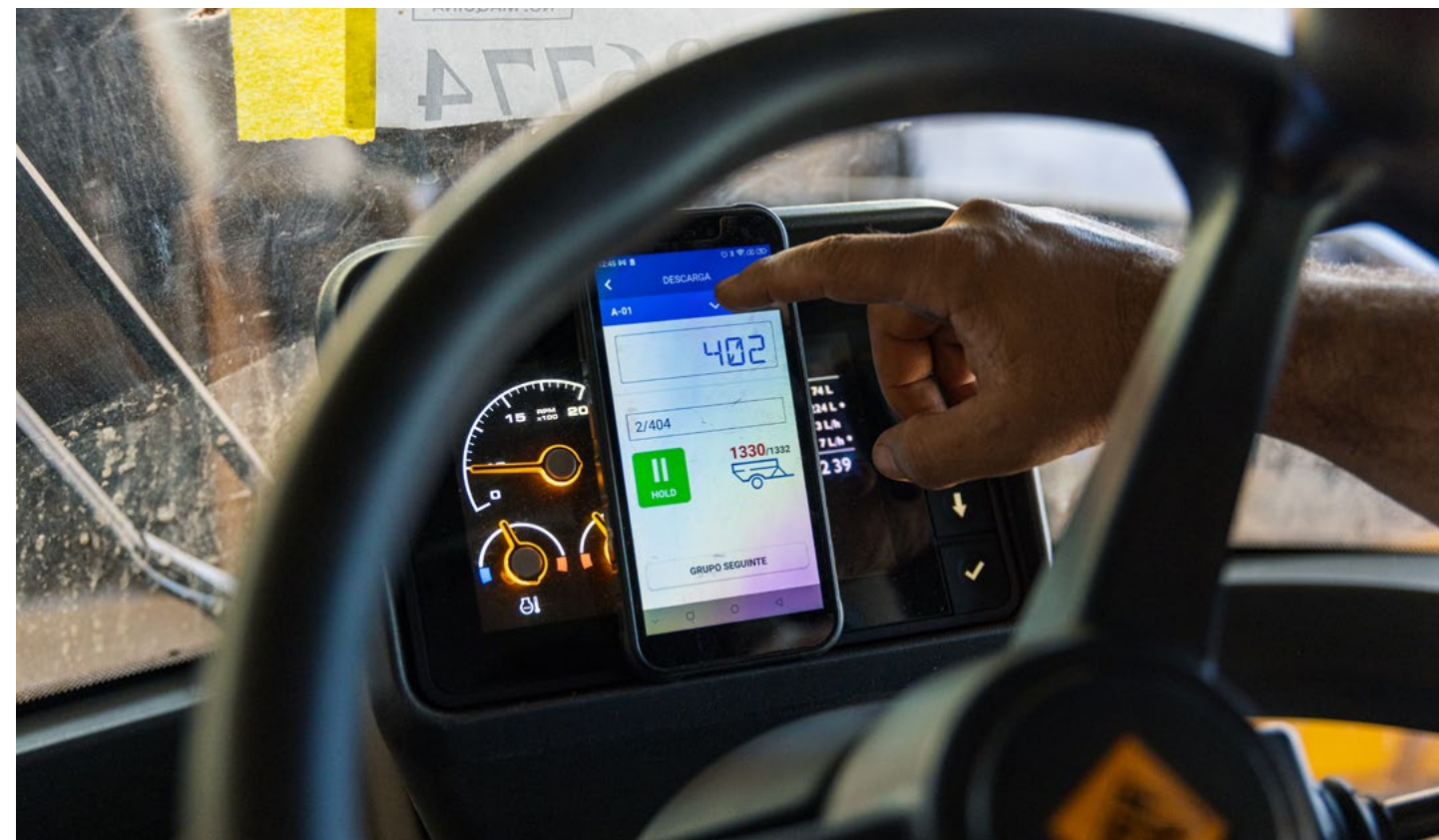
Load Accurately



Eliminate Repetition



Streamline Management



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.



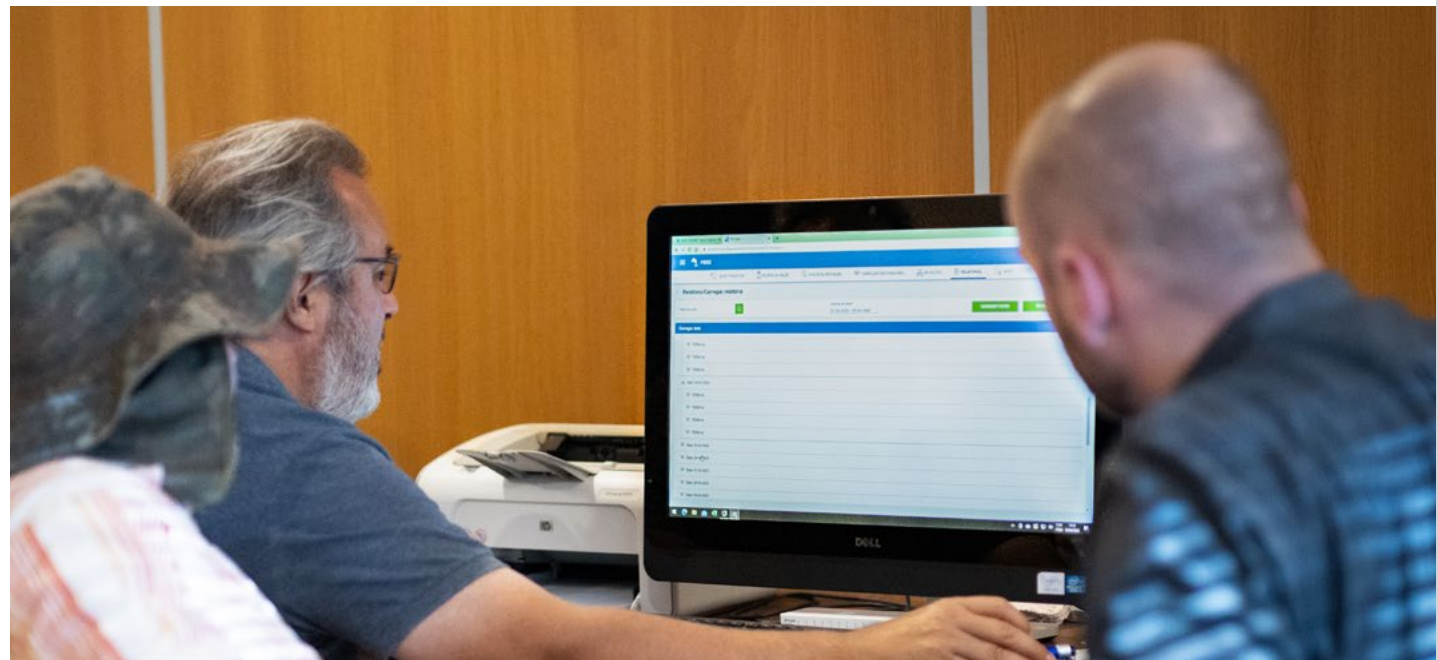
Automatically
Collect Data



Analyze to
Improve



Share
with Advisors



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MANAGE FEED

THE
TECHNOLOGY

APPLICATIONS

PARTNERS &
INTEGRATION



TMR 3610 /
TMR 4610 /
TST 7600

SL2 BT Converter
(ISO-UT or SLC 2810 Indicator)

Digi-Star 2810 BT or
Digi-Star 3410 BT

TAP FEED App

Proven Feed Mixer Weighing

After determining the feed plan or TMR, loading is the next step in managing inputs, improving efficiency, optimization, and enabling performance tracking. Topcon feed mixer weighing, comprising Digi-Star product line indicators, convertors and load cells, ensures accurate execution and logging. Our solutions also offer a mobile app as an additional display (CabControl or TAP FEED) and a connection point to feed management software (TAP FEED).

The TAP FEED app goes beyond real-time load monitoring, offering basic reports, loads, recipes, and feeding groups. Start with basic digital feed management in the app and connect to TAP FEED software for more robust capability when ready.

Featuring

Highly accurate load monitoring and logging technology

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

Remote hardware support plus mixer maintenance functionality

Clear indicators as display including mobile app option connected via Bluetooth®

WHY
MANAGE FEED

THE
TECHNOLOGY

APPLICATIONS

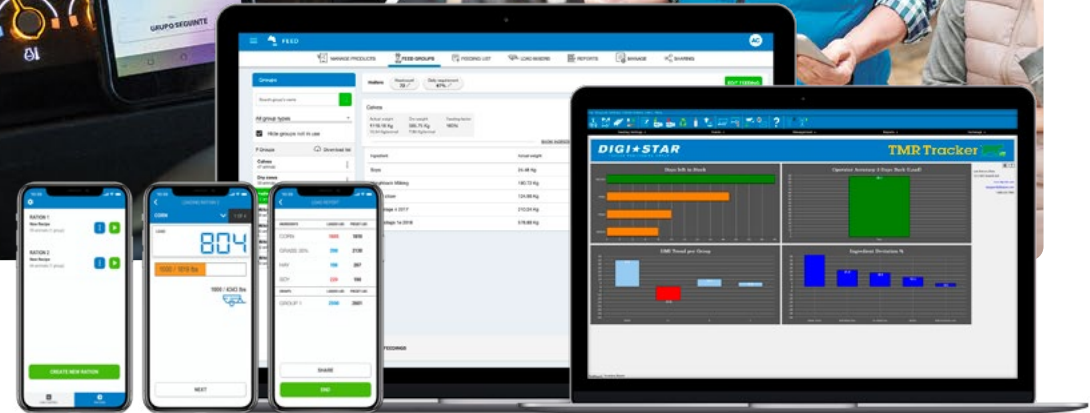
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INTEGRATION



Easy-to-Use Feed Management Software

TAP FEED Software

Building upon its predecessor, TMR Tracker, TAP FEED is the latest evolution in modern feed management. Our software is cloud-based and tied to the feed mixer via Bluetooth connection from the indicator to the TAP FEED app. The software provides a modern and intuitive interface with core feed management capability, including planned integration of the most advanced features from TMR Tracker. With subscription options to suit every operation, farmers can easily manage products, feeding groups, feed lists, mixer loads, feeding periods, operators, and more. Efficiently create and export comprehensive reports, including ingredients usage, loads, DM intake per head, ration delivery, group delivery, and operator accuracy. Permit access and share with trusted advisors, too. Feed management has never been easier, more connected, or cost-effective.



TAP FEED App

TAP FEED Software or TMR Tracker Software

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.

WHY
MANAGE FEED

THE
TECHNOLOGY

APPLICATIONS

PARTNERS &
INTEGRATION

TAP FEED Subscriptions and add-ons for any livestock operation

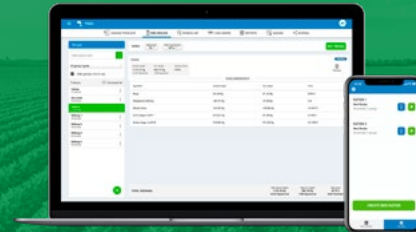
Start with the App Tied Directly to the Mixer



TAP FEED App

Easy to use with relevant features for feed management, the app is free with the latest lineup of Bluetooth Topcon/ Digi-Star displays and weigh convertors – enabling an organic transition into feed management software.

Digital Feed Management for Any Operation



TAP FEED Lite

Valuable for any livestock operation, Lite easily manages ingredients, recipes, feeding groups, feed lists, mixer loads, feeding periods, operators, and more. Efficiently create and export comprehensive reports that include ingredients usage, loads, DM intake per head, ration delivery, group delivery, and operator accuracy.

Advanced Capability Tailored for Dairy Operations



TAP FEED Pro

Specially designed for dairy operations, Pro builds upon TAP FEED Lite features to offer advanced ingredient, recipe/pre-mix, pen, operator, and dry matter efficiency (DME) management, with registered refusals, zone control, expanded reports and enhanced sharing tools.

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.

WHY
MANAGE FEED

THE
TECHNOLOGY

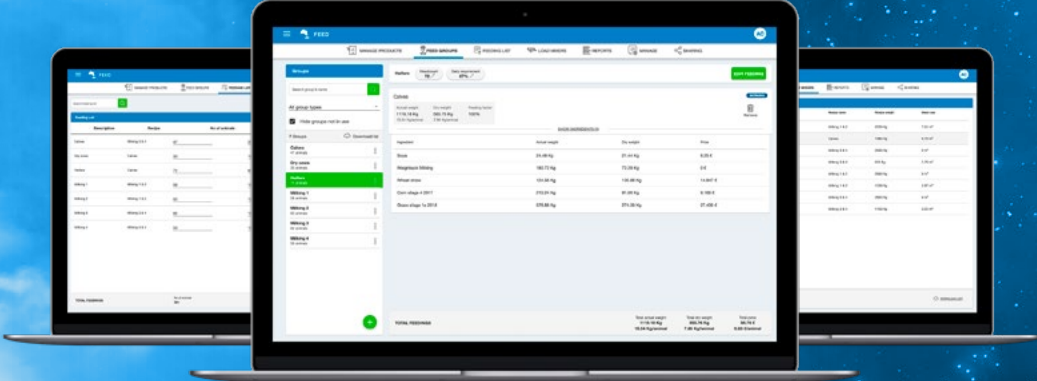
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Full Spectrum of Feed Management Features

Click on the boxes to see more details.

TAP into Connected Feed Management



Modern feed management software tied directly to the mixer.
[Click here:](#)

WHY
MANAGE FEED

THE
TECHNOLOGY

APPLICATIONS


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How it Works (TAP FEED)



Indicator
2810 BT / 3410 BT

Convertor
SL2 BT



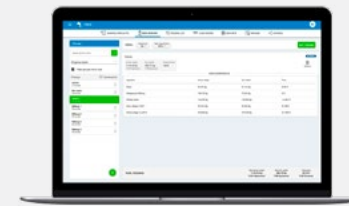
Connection (Bluetooth)



TAP FEED App



Cloud Transfer (Cellular or Wi-Fi)




TAP FEED Software

Featuring core digital feed management features with subscription options for more advanced dairies and advisors. Cloud-based available on common PC browsers. Automatically syncs data with the TAP FEED app.

Easily transfer data from an existing TMR Tracker account.



Indicator
TMR 3610 / TMR 4610 / TST 7600




USB or Radio or Wi-Fi




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.

OR



Indicator
EZ3600 / EZ4600



USB or Radio

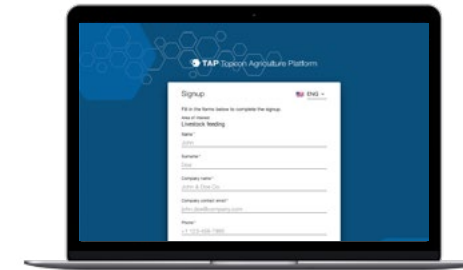
WHY
MANAGE FEED

THE
TECHNOLOGY

APPLICATIONS

PARTNERS &
INTEGRATION

Getting started – TAP FEED App



Step 1

Download the TAP FEED app on the Apple App Store or Google Play Store.

Note: The TAP FEED app can be used in guest mode providing cab control and basic digital feed management capability, but will not be connected to the complete web-based software platform unless account is registered.

Step 2

Sign up for a TAP FEED account through the app or through the web portal [Sign up Page](#).

Note: New accounts receive free 90-day TAP FEED Lite trial to test the platform.

Step 3

Access TAP FEED software via common web browser on your PC. Plans are automatically synchronized with the TAP FEED app for execution (Make sure you are logged into your TAP account in the app).

The TAP FEED app connects to compatible indicators/convertors via Bluetooth, displaying and tracking loads. The data is logged and uploaded to the TAP FEED platform in near real-time, providing reliable data capture and efficient support. Review reports, analyze performance and securely share with advisors.

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MANAGE FEED

THE
TECHNOLOGY

APPLICATIONS

PARTNERS &
INTEGRATION

Related Solutions



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, this combines 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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MANAGE FEED

THE
TECHNOLOGY

APPLICATIONS

PARTNERS &
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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

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MANAGE FEED

THE
TECHNOLOGY

APPLICATIONS

PARTNERS &
INTEGRATION



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

WHY
MANAGE FEED

THE
TECHNOLOGY

APPLICATIONS

PARTNERS &
INTEGRATION



Committed to Partners and the Industry

We are the ideal partner for developing advanced solutions for your crop and livestock control challenges. Our experience, technical expertise, and overall company strength make us uniquely qualified to provide enhanced automation technology. Ultimately, this will drive your customers' productivity - and your market share - to ever-higher levels.

SPEED TO MARKET | GLOBAL NETWORK | EXPERIENCED OEM TEAM

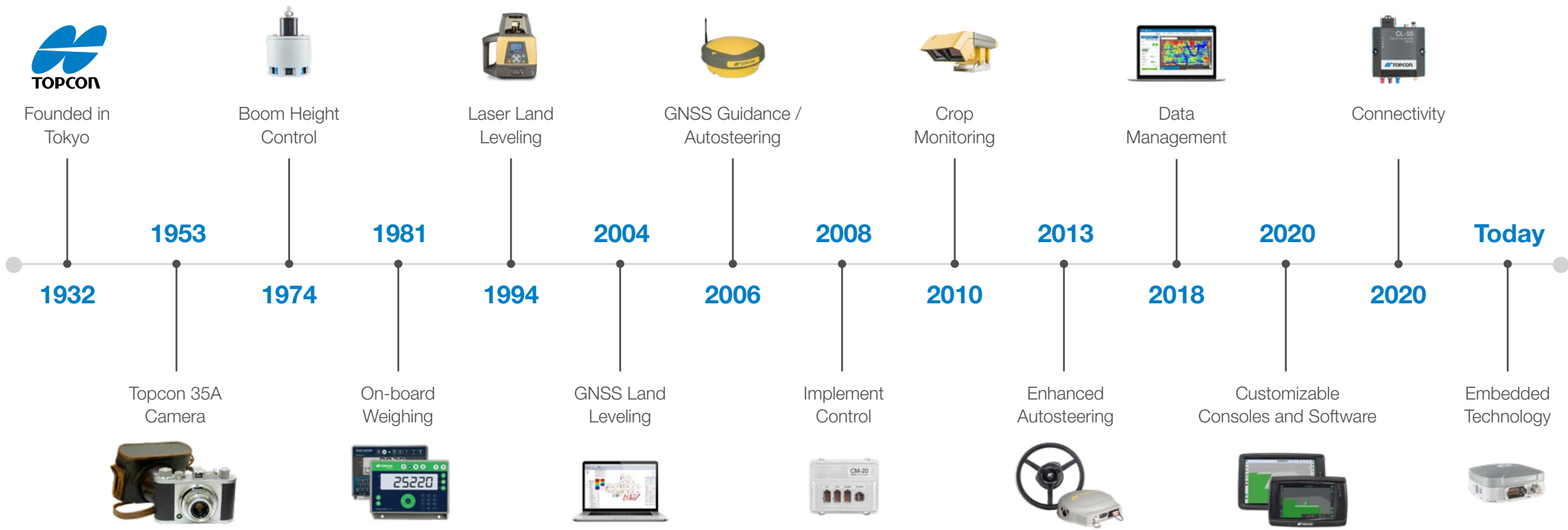
WHY
MANAGE FEED

THE
TECHNOLOGY

APPLICATIONS

PARTNERS &
INTEGRATION

A History of Topcon Corporation in Agriculture



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

Trust Topcon to get you there faster with high-quality positioning and automation solutions tailored to your product strategy.

Independent solutions

In an industry with many contractual alliances, we remain independent. We have the freedom to develop technologies that best fit your unique goals. Our custom OEM solutions are all clean-sheet designs, providing more opportunities to differentiate your product from the competition.

Speed to market

Product development carries an inherent pressure to do everything faster and better than before, particularly since technology is only viewed as innovative if it arrives before the competition. Our experience helps simplify and shorten the design process, allowing you to go to market with your product faster – and with the utmost confidence.



Topcon Training Center,
Livermore, CA

Topcon Technology
Roadshow Truck

Topcon Positioning Systems Headquarters,
Livermore, CA

WHY
MANAGE FEED

THE
TECHNOLOGY

APPLICATIONS

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INTEGRATION



4900+ Employees | 2150+ Patents

WHY
MANAGE FEED

THE
TECHNOLOGY

APPLICATIONS

PARTNERS &
INTEGRATION



FEED MANAGEMENT

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.

Easily Integrated Modular Technology



Guidance

Consoles

Steering



ACU-1



EHi Valve



Correction Services

GNSS Receivers

Base Stations & Reference Stations Network



MC-R3



Digital Farm Management

Data Software

Connectivity

WHY
MANAGE FEED


THE
TECHNOLOGY

APPLICATIONS









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

Customizable Solutions for Every Application












Soil Preparation

Landforming and Drainage		Tillage	
		 <p>Strip Till Control</p>	
Hardware			
 <p>MC-R3 Receiver/Control</p>	 <p>TM-1 Electric Mast</p>	 <p>HCM1 Controller</p>	
 <p>System 5 Series Controller/Display</p>		 <p>UC7 Ultrasonic Sensor</p>	
Software			
 <p>AGForm-3D Survey/Design</p>		 <p>ISO BUS</p>	












Seeding

Seeding	Planting	Transplanting
Hardware		
 <p>Apollo CM-40 Controller</p>	 <p>Artemis AM-1 Controller</p>	 <p>Apollo CM-20 Controller</p>
 <p>MFDC 100 Seed Drill Monitor</p>		 <p>CAN Motor</p>
Software		
 <p>ISO BUS</p>		 <p>ISO BUS</p>
 <p>ISO BUS</p>		




Crop Care

Spreading	Spraying	Crop Monitoring
Hardware		
 <p>SL2 Convertor (Weigh)</p>	 <p>Apollo CM-40 Controller</p>	 <p>HCM1 Controller</p>
 <p>Apollo CM-20 Controller</p>	 <p>LMS-20 Sensor</p>	 <p>UC7 Ultrasonic Sensor</p>
Software		
 <p>ISO BUS</p>		 <p>ISO BUS</p>
 <p>ISO BUS</p>		

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

Customizable Solutions for Every Application









Harvest


Yield Monitoring


Grain Cart Weighing


Hardware

 YM-1 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







	 SL2 Converter	 Indicator SW4600EID
 Pressure Sensor	 Indicator Cab Control App	 Weighing Platform
 Pressure Sensor	 Load Sensor	




Feed Management

Feed Mixing

Hardware

 Indicator EZ 2810BT / 3410B	 Indicator TMR 3610 / 4610	 Indicator TST 7600
 ERM Wi-Fi Module	 SL2 Converter	 Load Sensor

Software


TOPCON
 TMR Tracker

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

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: topcompositioning.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.



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.





Grow without limits.

topconpositioning.com

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