

# Grow your way.

Proven precision measurement with a plan.



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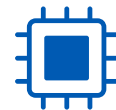
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## Topcon Agriculture

High-precision hardware, software and data to bring you efficiency and enhanced productivity to every phase of the farming operation.





## Legacy in precision

Fueled by economic, environmental, social, and political factors, farmers need solutions that reduce inputs, increase production, and promote sustainability. At its core, precision agriculture optimizes profitability and efficiency through measurement technology.

Topcon stems back 90 years in surveying and over 40 years in agriculture developing key solutions for crop and livestock production. We are committed to bringing impactful solutions for global agriculture by leveraging core technologies in guidance, correction services and digital farm management throughout key applications in soil preparation, seeding, crop care, harvest, weighing, and feed management.



# Proven with a plan

We offer a wide range of proven precision measurement technology for key applications backed by ever-expanding global support.

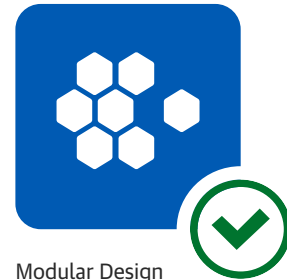
Leveraging a wealth of experience and internal expertise, we have a clear plan; simplify connectivity and develop open platforms with flexible, modular designs to suit the varying needs of farming.



Strategic Plan



IoT Connected



Modular Design



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# How can you Benefit from Precision Agriculture Technology?

 <p>Increase Profitability</p>	 <p>Reduce Inputs</p>	 <p>Improve Efficiency</p>	 <p>Reduce Fuel &amp; Maintenance</p>	 <p>Reduce Application and Labor Costs</p>	 <p>Accelerate Planning</p>
	 <p>Increase Production</p>	 <p>Maximize Land</p>	 <p>Improve Crop Quality</p>	 <p>Improve Fertility and Yield</p>	 <p>Analyze Data to Improve</p>
	 <p>Empower Labor</p>	 <p>Improve Accuracy and Skill</p>	 <p>Reduce Fatigue/Stress</p>	 <p>Operate 24/7</p>	 <p>Reduce Repetition and Manual Activities</p>
 <p>Improve Sustainability</p>	 <p>Drive Long-Term Success</p>	 <p>Reduce Environmental Impact</p>	 <p>Improve Labor Longevity</p>	 <p>Support the Future</p>	 <p>Adhere to Regulations</p>



# Guidance

Steering you right from the start.

Accurate positioning is the cornerstone of site-specific management. Tracking location, it's not only required for precise control, but expansive data collection, enabling farm professionals to compare different types of information (e.g., yield, soil type, fertility, etc.) for better decisions. Most utilized for real-time operation through manual guidance and autosteering, the benefits of improved efficiency, reliable performance, and reduced fatigue have made it the most widely adopted technology in agriculture.

We pioneered multi-constellation GNSS pinpoint positioning and has supported the global industry standards - ISO protocol, from the start. Guidance is the key to accuracy and the heart of precision farming. We offer modular solutions to suit virtually any machine and operation.



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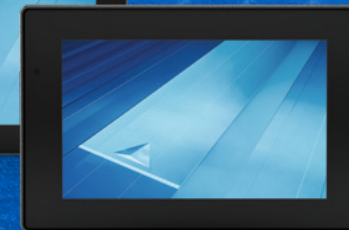
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**XC1 plus (10")**  
Customizable touchscreen



**XC1 (7")**  
Customizable touchscreen



**XW-1**  
Electric Steering System



## Correction Services

Get the most out of every square centimeter you farm.

Correction services are essential to the accuracy of GNSS-based guidance and autosteering to support key applications throughout the crop cycle, including soil preparation, seeding, crop care, and harvest. To account for the variable conditions and demands of global agriculture, we have built a full suite including localized- and network-based solutions to deliver high-quality accuracy and repeatability for any agricultural operation, application and machine.

Now more flexible than ever, including cellular and satellite subscriptions, Topcon correction services are globally tested, proven and reliable. Equipped tractors, sprayers, spreaders and harvesters benefit from fast initializations and reliable positioning any time of the day or night.

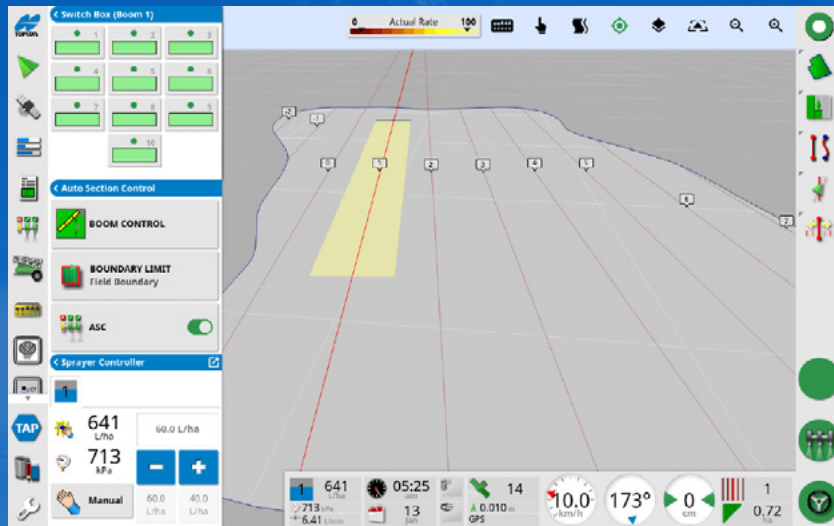


MR-2  
Permanent Base

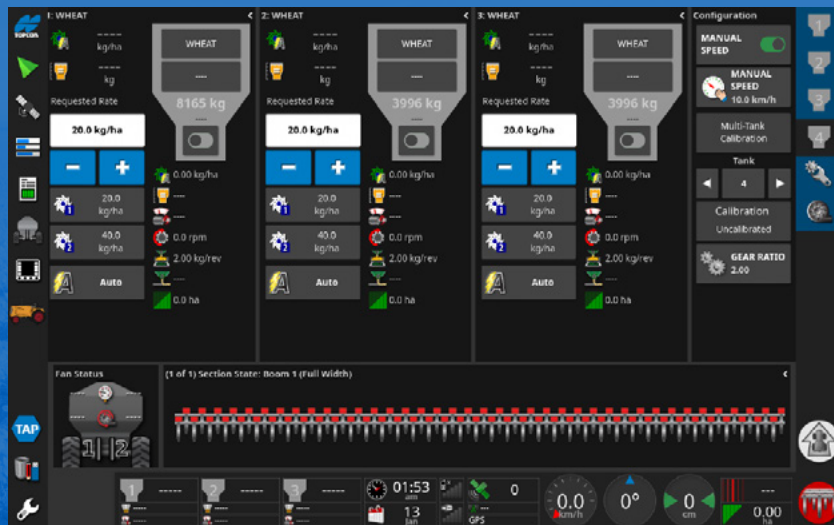
XR-1  
Receiver/Steering Controller

HiPer VR  
Mobile Base





Horizon OS - Spraying Control example



Horizon OS - Spreading Control example

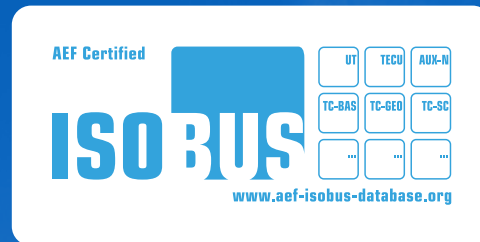
# Topcon Horizon OS

Unlock what you need, when you need it.

Horizon software is all about efficiency, modularity and connectivity. Revamped with a fresh look to complement the smoother experience, it drastically simplifies setup for key operations. Icon-based and user-definable, Horizon presents a choice of views for each function. The same software runs on all Topcon Agriculture consoles with the option of bundled (X25 or X35) or unlockable (7" XD and 12.1" XD+) capabilities based on console selection.

Our consoles are compatible with the full range of Topcon sensors and application control technology to suit basic to most progressive operations. Coupled with other Topcon and 3<sup>rd</sup> party technologies, Horizon provides flexible solutions, priced right.

Set autosteering patterns, control application rates, monitor each operation, and map every pass – all from a single dynamic environment you can manage on the fly with simple multi-touch gestures.



Horizon OS / ISOBUS - Guidance / Spreading Control example

## ISOBUS Universal OS

We pursue universal compatibility.

The Agricultural Industry Electronics Foundation (AEF) is an independent organization that implements international electronic standards. This oversight improves cross-manufacturer compatibility and transparency of electronic and electric components in agricultural equipment.

We build many key hardware and software solutions under ISOBUS protocol to offer seamless, universal integration.

### ISOBUS Compliant Software

- Seed Drilling
- Row Crop Planting
- Transplanting
- Spreading
- Spraying
- Boom Height Control
- Yield Monitoring

### ISOBUS Compliant Hardware

- X Family Consoles
- Guidance Receivers
- Controllers



 **TAP**  
Topcon Agriculture Platform



**CL-55**  
Cloud Connectivity Device

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# Digital Farm Management

Designed for farmers, dealers, agronomists, and input suppliers who need to gather and consolidate key operational information, the Topcon Agriculture Platform (TAP) brings connectivity to every phase of the farming cycle, automating the data workflow, so users can focus on action.

TAP is an easy-to-use tool to organize, visualize and make better farm management decisions based on data from across the entire farming operation. Constant connectivity, any data format, clear visualization, and secure sharing. With TAP, we now offer a comprehensive and clear path into digital farm management.

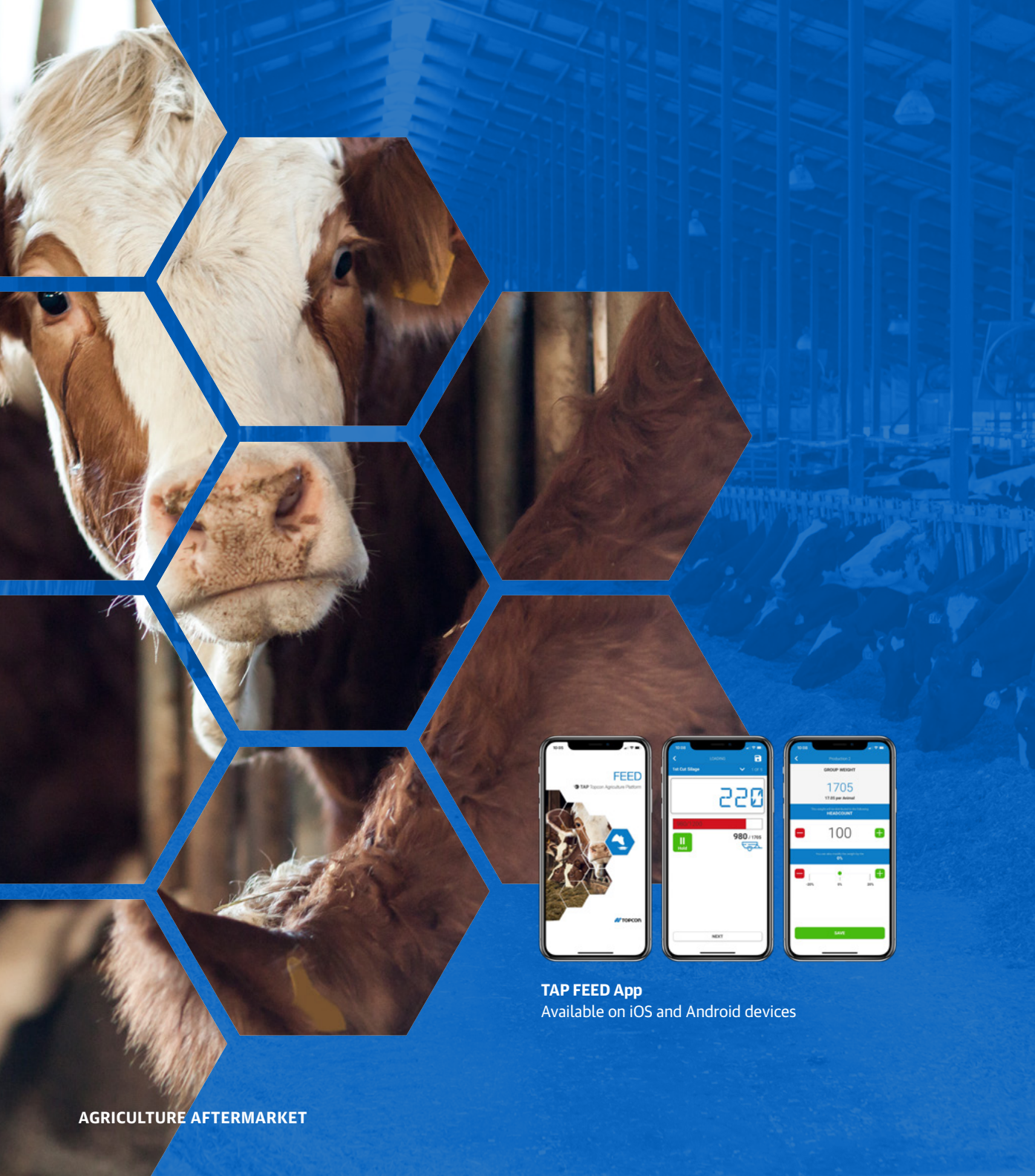


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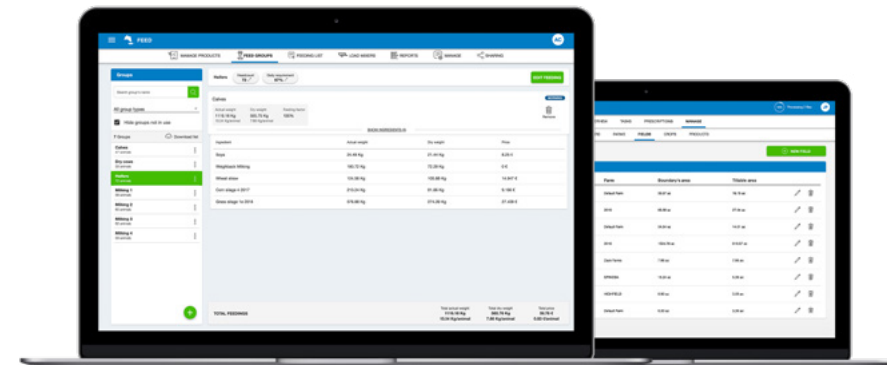
# TAP FEED

Modern, intuitive, and connected feed management software tied directly to the feed mixer via mobile app, TAP FEED fuses management software with load mixer integration. It's designed in collaboration with industry partners to provide easy-to-use features to improve efficiency, reduce waste and improve production.

Free with the latest lineup of Bluetooth® displays and weigh converters, start with the TAP FEED app for an organic transition into digital feed management.



**TAP FEED App**  
Available on iOS and Android devices



**TAP FEED Software**

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## Soil Preparation

Tools to optimize soil.

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You can increase efficiency and yield through careful grading and landforming design while conserving topsoil and water. Whether you're designing the surfaces of your fields, managing residue or preparing the soil for optimum fertility, we'll help you better manage the natural resources you rely on season after season.

Click the images or bullets below for more information.



## Seeding

Maintain singulation and spacing.

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Proper seed placement can directly impact your yield. We offer a variety of variable rate seeding solutions regardless of the type of machinery you run. Our complete line-up works on seeders, drills and row-unit planters and will have you field ready.

Click the images or bullets below for more information.



## Crop Care

Grow your way.

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Protecting and fertilizing your crops with the right product at the right rate, time and place may well be the single most expensive and critical activity. Detect crop health and apply as you go with our crop health sensors. We offer rate and section control solutions for sprayers and spreaders of all makes and models, so you can count on us to have a solution for you. Even ensure the product goes exactly where it should by adding a boom height control.

Click the images or bullets below for more information.



# Harvest

Measure performance and act.

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Our field-proven optical yield and moisture monitoring solution provides real-time yield data, so you'll know exactly where you stand as you harvest. Send yield maps directly from the field for future analysis and decision making. Our harvest system gives you unmatched insight and record keeping to deliver a more profitable yield. Plus, progressive specialty crop yield monitoring.

Click the images or bullets below for more information.





# Weighing

Know your way.

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Whether you are weighing livestock, grain, feed mixers, bulk material or bales, our hydraulic weighing systems capture and record that data with ease and accuracy. You owe it to yourself to manage the most critical inputs on your operation.

Click the images or bullets below for more information.



## Feed Management

Manage costs and boost production.

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Managing feed can be messy. Farmers need a streamlined approach to connect load mixers with management software, from loading and tracking to logging and optimization. We offer simple feed mixer load monitoring to logging and automatic data exchange, seamlessly connected to software designed by real farmers.

Click the images or bullets below for more information.

# Easily Integrated Modular Technology




## Guidance

Consoles		Steering	
 XC1		 XC1 plus	 XW-1
			 ACU-1



## 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







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Landforming and Drainage	Tillage
	 <p>Strip Till Control</p>
Hardware	
 <p>MC-X1 / GR-i3F Controller/Receiver</p>	 <p>HCM1 Controller</p>
 <p>GC-35 Controller/Display</p>	 <p>MS-1 Ultrasonic Sensor</p>
Software	
 <p>AGForm-3D Survey/Design</p>	 <p>ISO BUS</p>



## Seeding












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



## Crop Care

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Spreading	Spraying	Crop Monitoring
Hardware		
 <p>SM-1X Controller</p>	 <p>SL2 Convertor (Weigh)</p>	 <p>CM-40 / CM-20 Controller</p>
		 <p>HCM1 Controller</p>
 <p>CM-20 Controller</p>	 <p>LMS-20 Sensor</p>	 <p>H2 Spraymaster</p>
		 <p>MS-1 Ultrasonic Sensor</p>
Software		
 <p>ISO BUS</p>		 <p>ISO BUS</p>
	 <p>ISO BUS</p>	

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
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## Weighing

- Material Handling / Onboard Weighing
- Universal Weighing
- Livestock Weighing

### Hardware


	 SL2 Converter		 Indicator SW4600EID
 Pressure Sensor	 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 Converter	 Load Sensor	

### Software



TMR Tracker

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# Agriculture Technology Products

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# Agriculture Technology Systems

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## 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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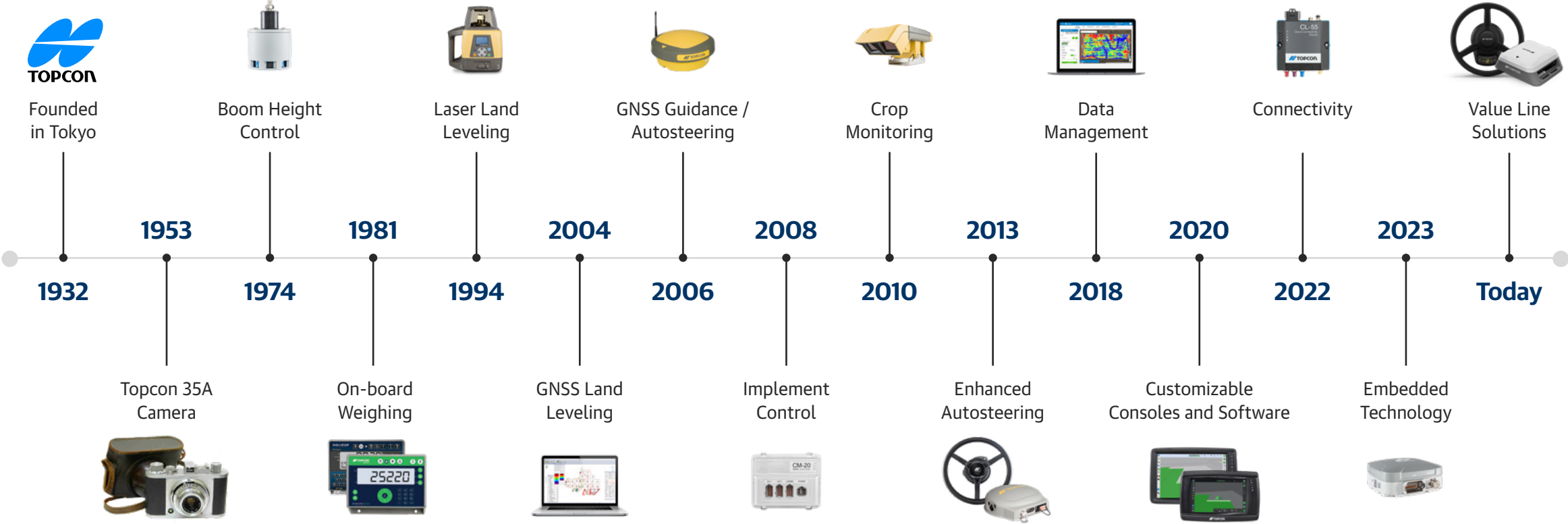
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# A History of Topcon Corporation in Agriculture



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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# 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](https://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.



[topconpositioning.com](https://topconpositioning.com)

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