Topcon Guidance Technology

Manual Guidance and Autosteering

Our technology guides machines
to reduce inputs and improve yield.

Learn more at **topconpositioning.com**

TOPCON
For Work That Matters™

Your Guide to Profit

Positioning isn't just a foundation; it's the key to unlocking precision in every aspect of farming. Our diverse range of solutions optimizes machine inputs, boosts labor efficiency, and maximizes your yield potential. For basic tasks, our manual guidance systems provide reliable accuracy, but the true power of Topcon shines with our automatic guidance systems. These advanced solutions minimize fuel use, reduce wear and tear on equipment, eliminate overlap, and drastically cut down on operator errors. By automating precision tasks, we help you increase yield through reduced soil compaction and precise application, ensuring your crops receive the nutrients they need for optimal growth.

Whether you're using manual guidance or fully automated steering, with Topcon, you have access to a wide suite of positioning solutions that integrate seamlessly with your machinery, making your operations more efficient, productive, and profitable.

- Position-based (GNSS) manual and automatic steering for many agricultural machines
- Reliable hardware - receivers, controllers, and displays
- Range of accuracy options upon operational needs
- Suite of complementary Topcon solutions and compatibility with 3rd parties

Reduce Key Inputs **Empower Labor** **Improve Fertility and Yield**

Correction Services
Options for every scenario

GNSS Receiver
Reliable positioning

Electric Steering Wheel
Powerful hands-free control

Display
Smart touchscreen consoles

Learn more at **topconpositioning.com**

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What's right for your operation?

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. Explore our suite of key solutions across the crop cycle to further automate laborious workflows. With our straightforward approach, you can upgrade when it makes sense for your operation.

Manual guidance or autosteering?

Manual Guidance

AGM-1
GNSS Receiver

Value Line Steering[1]

XR-1
GNSS Receiver

Premium Line Steering

AGS-2
GNSS Receiver

Choose your console.

Manual guidance with access to all Topcon solutions, plus ISOBUS implement control

XD (7") or XD+ (12.1")

Autosteering plus ISOBUS-UT compatibility

XC1 (7") or XC1 plus (10")

Autosteering with access to all Topcon solutions, plus ISOBUS implement control

XD (7") or XD+ (12.1")

Steering controller based upon vehicle capability.

Steer-Ready or Non-Steer Ready

XW-1
Electric Steering Wheel

Steer-Ready or Non-Steer Ready

ACU-1
Steer Ready Interface

AES-35
Electric Steering Wheel

[1] Value Line Steering is only compatible with front wheel steer tractors

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How precise do you need to be?

HiPer VR / MR-2
Base station
accuracy up to 1cm

Realpoint*
accuracy up
to 2cm

Starpoint Pro
accuracy up
to 2.5cm

Starpoint
accuracy up
to 15cm

Correction Service				
Starpoint	X	-	-	-
Starpoint Pro	-	X	X	X
Realpoint*	X	X	X	X
HiPer VR - Base Station	X	X	X	X
MR-2 - Base Station	X	X	X	X

Correction Service Precision

Precision Application

Seeding
accuracy up
to 4cm

Crop Care
accuracy up
to 10cm

Harvest
accuracy up
to 15cm

Soil Preparation
accuracy up
to 30cm

*Local coverage varies, confirm availability with local dealer (Preferred cellular source as Cloudlynk device (CL-20 and CL-55) and TAP NTRIP)

We offer guidance patterns for every application

Straight

Center Pivot

Curved

Custom

Steer smart with relevant features

Steer to Boundary
Generates guidance line from boundary to follow with autosteer to maximize land.

Guidelock
Generates guidance line based upon lass pass coverage so you don't overlap.

Headland Turns
Automatically generate and execute turns at end of rows for seamless transition into next pass.

Controlled Traffic[2]
View multiple guidance paths with operating guide-lines differentiated from surrounding tasks.

[2] Feature not offered in Value Line Steering

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Our in-cab operating software automates key activities

Topcon in-cab operating software (Horizon OS) is all about efficiency and connectivity. Its easy usability makes setup efficient and operators confident.

Auto Section Control (ASC)[3]

Auto section control (ASC) is a function of application control that switches sections of an implement in order to apply inputs more precisely. Our feature is compatible with Topcon and 3rd party ISOBUS controllers to prevent over-application and follow precision management strategies.

Variable Rate Control (VRC)[2]

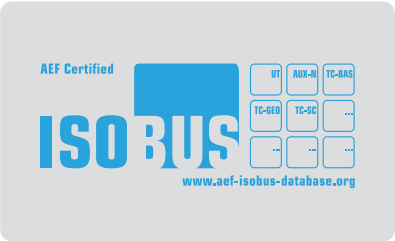
Variable rate control (VRC) is a function of application control that varies the output rate of an implement in order to apply inputs more precisely. Our feature is compatible with Topcon and 3rd party ISOBUS controllers to optimize inputs, boost production, and follow precision management strategies.

Machine Link[2]

Machine Link is a connectivity feature that allows multiple machines to collaborate in-field by sharing live coverage and application data. Task data is seamlessly connected across machines so all operators can view overall progress to work more effectively and avoid duplicate effort.

[2] Feature not offered in Value Line Steering
[3] Value Line Steering does not provide full functionality, only virtual implement capability

XTEND[2]
XTEND is an app that extends Horizon UI windows and elements to virtually any modern iOS or Android mobile device. Use as an additional screen in-cab or even outside for calibrations and loading activities.



ISOBUS Implement Control[4]
Display compatibility for ISOBUS protocol solutions. Integrate with ISO ECUs for automatic control and mapping.

Cameras[2]
Integrate digital cameras (AgCams) into interface.

Lean on reliable dealer networks including remote support

Our trained dealers and extensive support network is here to help. Our remote support capability, allowing 3rd parties to connect to your display make it even more efficient.

Remote Support

Collect data and make better decisions with our cloud software, the Topcon Agriculture Platform (TAP)

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. TAP is a simple tool to organize, visualize, and automate information, helping farmers make better decisions based on data from across the entire operation. With TAP, we now offer a comprehensive and clear path into digital farm management.

[2] Feature not offered in Value Line Steering
[4] Value Line Steering only provides ISOBUS-UT functionality

Learn more at **topconpositioning.com**

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Easily connect consoles to our cloud software

1

Console

Easily connect current or legacy Topcon X Family consoles to the Topcon Agriculture Platform, including the XD, XD+, X25, X35, and X30.

2

Data Transfer[5]

Plug-in a Cloudlynk data transfer device, including the CL-20 and CL-55 into your X Family console to seamlessly transfer data to TAP via cellular networks. Alternatively, use our Wi-Fi dongle or even a classic USB to manually transfer data.

3

Topcon Agriculture Platform (TAP)

Combined with an X Family console and Cloudlynk data transfer device, the Topcon Agriculture Platform (TAP) automatically ingests data, helping you organize, visualize and make better decisions.

Flexible subscriptions and powerful addons

TAP Fields
Easily organize, visualize, and decide

TAP Fleet[6]
Track the fleet and monitor metrics

TAP Pro
Streamline transfer and track the fleet[6]

Grain Cart
Automatic upload of Topcon harvest cart data

Satellite imagery
Measure crop and field health for insights that lower risk

[5] Value Line Steering only compatible with CL-20 device
[6] Not compatible with Value Line Steering

Learn more at **topconpositioning.com**

TOPCON
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Our guidance, implement control and crop monitoring solutions are compatible with most farming machines

Tractors[1]

Sprayers[6]

Harvesters[6]

And more![6]

We offer long term strategy through complementary solutions

Implement Control[4]

Key ISOBUS and Topcon Horizon OS based solutions across the crop cycle seamlessly tied to guidance and autosteering.

Crop Monitoring[4]

Optimize on-the-go application or collect data for prescription plans and analysis.

Topcon Solutions

- 3D Landforming
- Tillage Depth Control
- Seed Drill Control
- Broad Acre Seeding Control
- Row Crop Planting Control
- Spreading Control
- Spraying Control
- Boom Height Control
- Crop Monitoring
- Yield Monitoring
- Grain Cart Weighing
- On-Board Weighing

[1] Value Line Steering is only compatible with front wheel steer tractors

[4] Value Line Steering only provides ISOBUS-UT functionality

[6] Not compatible with Value Line Steering

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