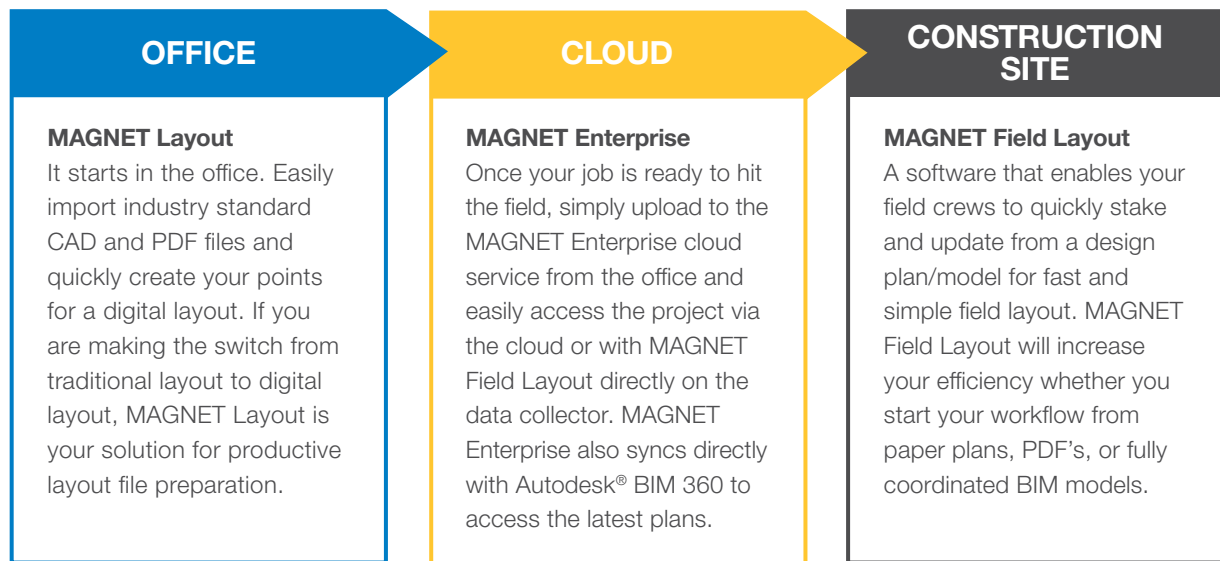# GT-500V SERIES
VERTICAL CONSTRUCTION TOTAL STATION

For All User Types

We understand that solutions are not one-size-fits-all, that's why our team has developed products that work for all types of BIM and Vertical Construction users. Whether you are a first-timer or experienced robotic total station guru – we can help.
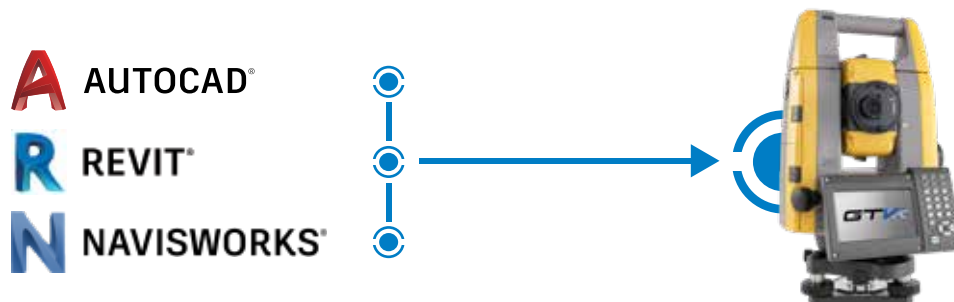
End-to-end Topcon MAGNET Workflow

MAGNET® is positioning software that provides you the ability to control data and instruments. This easy-to-use software suite comes with a cloud connected service — Enterprise — which increases productivity between the field and office.

OFFICE	CLOUD	CONSTRUCTION SITE
MAGNET Layout It starts in the office. Easily import industry standard CAD and PDF files and quickly create your points for a digital layout. If you are making the switch from traditional layout to digital layout, MAGNET Layout is your solution for productive layout file preparation.	**MAGNET Enterprise** Once your job is ready to hit the field, simply upload to the MAGNET Enterprise cloud service from the office and easily access the project via the cloud or with MAGNET Field Layout directly on the data collector. MAGNET Enterprise also syncs directly with Autodesk® BIM 360 to access the latest plans.	**MAGNET Field Layout** A software that enables your field crews to quickly stake and update from a design plan/model for fast and simple field layout. MAGNET Field Layout will increase your efficiency whether you start your workflow from paper plans, PDF's, or fully coordinated BIM models.

Autodesk Integrated Workflows

Together with Autodesk®, we deliver integrated solutions that improve productivity, efficiency, and profitability. The Autodesk Point Layout plug-in works within AutoCAD®, Revit®, and Navisworks® to create digital layout files for use with Topcon robotic total stations. This tried-and-tested integration sets you up with a fully compatible workflow sent from your office software to the job site with MAGNET Enterprise.

AUTOCAD®

REVIT®

NAVISWORKS®

Digital Layout Solutions

Having the right equipment in the field makes all the difference. Stay connected, productive, and in control with the FC-5000 field computer and the MAGNET Field Layout.

FC-5000 Field Computer

Bring office-level processing speed directly to your project site. This compact and rugged hand-held device offers a crisp display even in bright sunlight conditions.

- Sunlight-readable 7 in. display
- Intel® Atom Z3745 processor
- Windows® 10 operating system
- 8MP rear camera, 2MP front camera
- Integrated 4G LTE cellular module (optional)
- Up to 15 hours of operating time

MAGNET Field Layout

This intuitive software is taylor-made for vertical construction contractors of all trades. Import a design file and get to work fast! Layout plans can be also be created in the field – all while staying in sync with the office.

- Minimize learning curve with easy-to-use software
- Same software for all Topcon robotic total stations
- Intuitive and graphical menu options
- On-screen point-creation
- As-built and QA/QC capabilities

GT-500V Series Robotic Total Station

Experience a performance like you've never seen before. The GT-500V Series robotic total stations are light-weight, high-performance solutions to fulfill your measuring needs at your work site.

- UltraSonic motors
- 30% smaller and lighter
- TSshield™ for theft deterrence and location tracking
- Advanced UltraTrac technology
- Three-year instrument warranty
- Five-year UltraSonic motor warranty
- Laser plummet

RC-5A Remote Control

The RC-5A's essential Quick Lock feature is powered by a LongLink™ connection and saves you time by simplifying prism reacquisition with your GT-500V total station.

- 300 m (984 ft) Quick Lock
- 600 m (1,968 ft) LongLink™ connection
- 40 hour Li-ion battery
- Waterproof IP55
- Single tap prism re-acquisition

Telescope	
Resolving Power	2.5"
Magnification	30x
Memory	4 GB LPDDR3 RAM, SD slot, user accessible

Angle Measurement	
GT-503: 3"	
GT-503: 5"	

Tilt Angle Compensation	
Compensation	Liquid 2-axis tilt sensor
Range	±6'

Distance Measurement	
Prism EDM Range GT-500V	2,000 m (6,561 ft)
Non-Prism Range	500 m (1,640 ft)
Prism EDM Accuracy GT-500V	2 mm + 2 ppm
Non-Prism Accuracy	2 mm + 2 ppm (0.3 - 200 m)
Measuring Time	Fine: 0.9 sec Rapid: 0.6 sec Tracking: 0.4 sec

Communications
LongLink™ interference-free communication
USB 2.0 Slot (Host+Slave)
RS-232C Serial

General	
Display	Color touch TFT 800 x 480 display
Keyboard	24 keys with illuminator
Battery Operation	Up to 4 hours
Dust/Water Rating	IP65
Wireless Connection	Bluetooth® Class 1
Operation Temp	-20° C to 50° C
Turning Speed GT-500	150° per-second

TSshield™
Theft deterrent : Remote Lock
Asset Tracking and usage history
Remote Diagnostics
On-line/remote update

For more information:
topconpositioning.com/gt-500v