



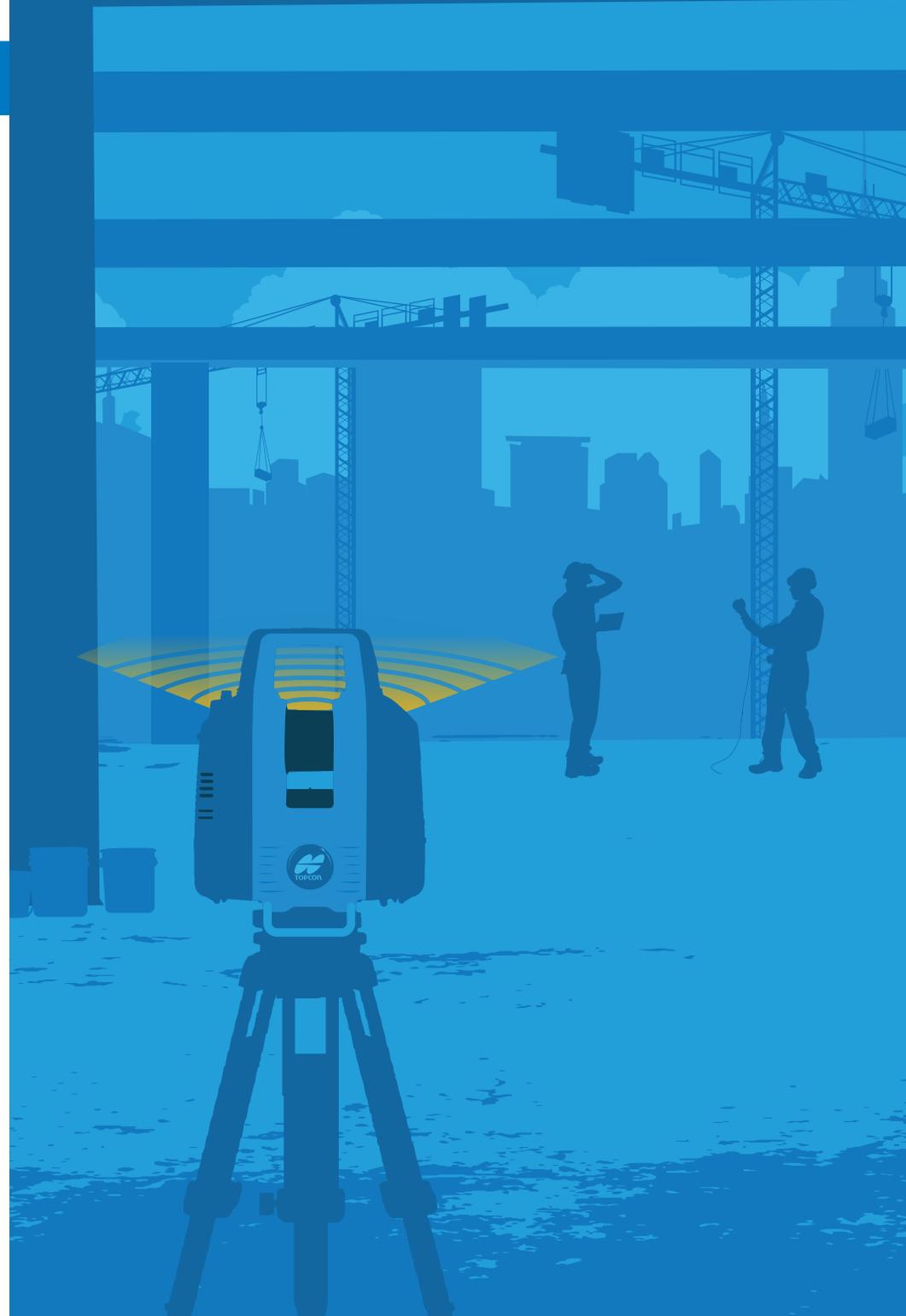
It's a data-driven world. It's always been that way in construction, if you count transforming data on a blueprint into a wooden stake in the ground. Thankfully, today's reality doesn't include many wooden stakes.

The information that drives every phase of a construction project lives in real time to be captured for use today, and recorded for review tomorrow. That's the essence of Building Information Modeling, and it's the heart of creating a sustainable infrastructure.

Topcon BIM solutions include innovative technology for automated construction layout, high-precision measurement, geospatial imaging, and high-resolution scanning.

With Topcon as your partner, the days of waiting for a layout or discovering a design error only at the clash point are over. Topcon solutions are designed to improve your productivity through the smart integration of information and innovative measurement technology.

**WITH YOU ALL THE WAY.**







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TOPCON

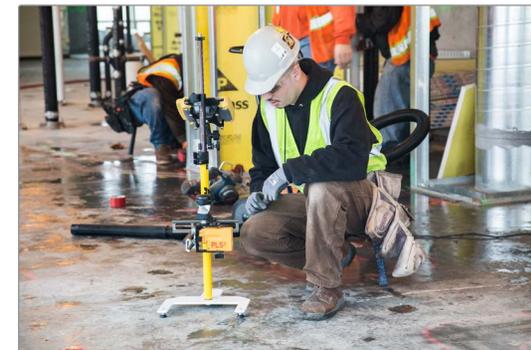
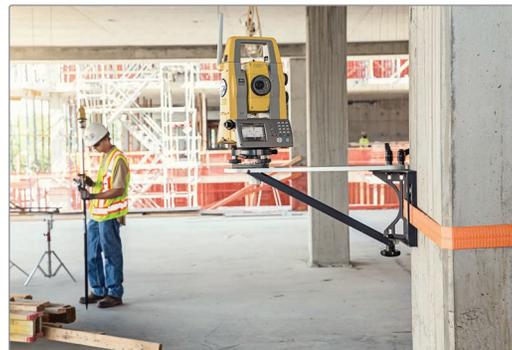


TOPCON  
TOPCON CORP

## Interior Building Infrastructure

Construction coordination is essential for any building project. Knowing what was done before and working from the same design plan is critical to maintain schedule and avoid costly collisions. With Topcon BIM solutions you stay connected to the same design.

Topcon BIM solutions help perform fast layout of design points and quick quality control documentation. A project's success is based on productivity, accuracy, and coordination. Contribute precise as-built data back to the BIM model as your work is done.





## Foundations and Footings

Nothing goes right if the foundation's not right. And nothing gets built until the entire foundational structures are in place. A Topcon BIM solution makes this process easier, more accurate, and much faster. In addition, performing QA/QC of concrete pour deflections and structure placement is made easier and more accurate with the Topcon BIM solutions.

Our layout and as-built systems, such as the Layout Navigator are ideal for laying out forms, placing footings and recording as-builts. These one-person systems make even the most complex designs a simple matter of connecting points. Stay ahead of schedule from the very beginning with Topcon BIM solutions.

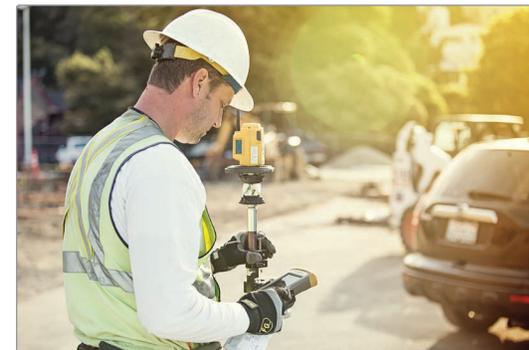




## Utilities and General Layout

Topcon BIM solutions save time in general building construction, lot prep, and utility location work. They even crossover into machine control solutions for excavating and grading. Use the Topcon BIM solutions to quickly and accurately stake foundation holes, utility trench locations, and general pad layout.

Waiting for a stakeout crew to do the foundation or utility layout for a new project can waste significant time, not to mention any needed re-staking after the project starts. Take control and do it yourself with one of the Topcon BIM solutions for construction layout.

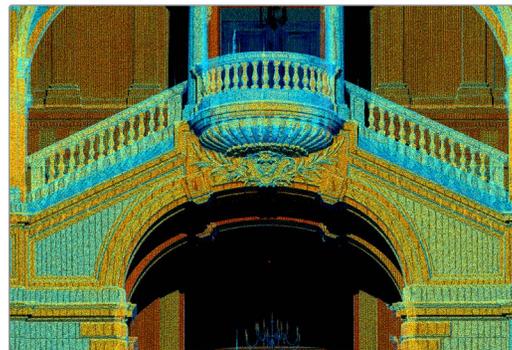




## Scanning, As-built, Renovation

Laser scanning is an ideal BIM solution. It is the fastest way to measure existing conditions and capture millions of points in just minutes. Use these point clouds to model the existing site, or quickly propose new construction features.

The extensive data, which also includes high-resolution imagery, is of timeless value in managing the life of the building and historical preservation records. For new construction, scanning collects the entire scene quickly and accurately. Scanning is ideal for enclosed systems mapping and all as-built requirements.

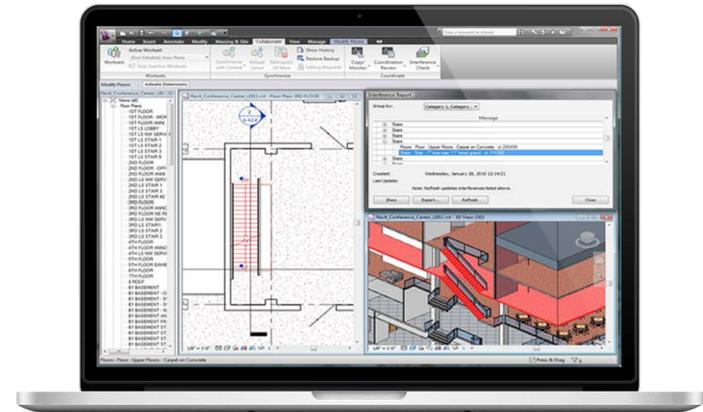


The key to a successful BIM positioning solution is the combination of products that maximize your productivity.

Selecting products that connect the office with the field will provide you with the competitive advantage needed. Both Topcon and Autodesk are focusing on products that connect through the cloud to provide live updates and coordinated sharing of BIM models. The BIM workflow is a two-way flow. Not only do all field crews need to stay current with design plans, they also need to contribute quality assurance and control information back to the office to detect any potential conflicts or adjustments to the scheduled build.



## OFFICE



There is a wide array of office products available to put together the best BIM workflow. Some firms are using advanced models with Revit® and Navisworks®. Others are working with AutoCAD MEP® or straight AutoCAD DWG files. All of these BIM models benefit from Autodesk Point Layout®. Site work from Topcon's MAGNET™ Office Site contribute important surface models and schedules to handle mass haul of excavations. The common feature to all of these office solutions is the ability to connect to the cloud for file sharing and communication.

## CLOUD



The primary benefits to using the cloud are staying current and connected. The cloud solutions such as MAGNET Enterprise, AutoCAD 360®, and BIM 360® all focus on keeping every person up to date in both field and office routines. The cloud is the common point of contact that keeps the project working. MAGNET Enterprise provides real-time views of field activities, secure data storage, and shared visibility to layout progress. MAGNET Enterprise cloud surfs with AutoCAD 360 in a seamless way of sharing AutoCAD files.

## FIELD



The field is where the work gets done, where the conflicts appear and where the money can be made. Topcon experience in providing positioning equipment for the field has vast. Selecting the best field product is critical to your success, whether it is an advanced imaging robotic system, a laser scanner, or a simplified 3D layout tool. All of these solutions operate through a colorful, touch screen tablet or hand-held controller – and all connect back to the cloud. BIM layout and as-built measurement tasks are mastered with one of Topcon's BIM solutions.

## Hardware Solutions

Topcon BIM solutions draw from an array of high-precision sensors and control devices.

A world leader in optical and measurement instrumentation for more than 85 years, the Topcon portfolio of innovative products include the world's first imaging and remotely operated total stations, now joined by the world's first 3D layout tool specifically designed for construction layout.

Ranging from advanced laser scanners and robotic total stations to rugged field tablets with integrated imaging and GPS, Topcon products are built to last, built to be precise, and designed to fully integrate into software workflows that get your work done faster.

The products shown are examples of our most popular BIM hardware. There are different models available based upon the desired accuracy and specific requirements of the application. Please contact a Topcon distributor or visit our website to learn more.

### Laser Scanner

#### GLS-2000

Best in class in all categories, the GLS-2000 laser scanner has the speed, accuracy and performance needed to satisfy virtually any as-built requirement.

- Long-range precise scan
- On-board operation
- Overhead scanning
- Integrated web interface for remote management



### Imaging Robotic Station

#### IS Series

A fully robotic instrument, with two integrated cameras and scanning functionality, the Imaging Station is ideal for documenting the project site. Features live video relay on a remote controller.

- Dual cameras
- Long-range robotic measurements
- Laser pointer



## Robotic Station DS Series

The DS is ready for work right out of the box, and easily configurable to meet most unexpected demands. Operates easily with on-board software or a remote controller.

- Auto-tracking prism
- LongLink™ communication
- Rugged, waterproof design



## GT Series Robotic Total Station

Our lightest, fastest, and most powerful robotic total station ever. The GT Series is ready to impress today, yet still grow with you into tomorrow.

- Ultrasonic Direct Drive motors
- 30% smaller and lighter, with more functionality
- Advanced UltraTrac technology



## 3D Layout Navigator LN-100

The Layout Navigator is the new, ideal solution for all construction layout. Compact, rugged and easy to set up, with one-man operation, layout has never been so simple.

- Easy operation
- Self-leveling
- One-man operation



## Tablet Field Computer FC-5000

Get all of the processing power and functionality needed in today's market. The FC-5000 is ready for complex 3D road layout, topographic work, feature and attribute collection, and more.

- 7 inch sunlight readable display
- Intel® Atom™ Z3745 Processor
- Windows 10 Professional, embedded
- Front and rear facing digital cameras



## Software Solutions

The ideal BIM solution is only as powerful as the software that controls it.

The most critical part of a successful solution is the software workflow. The hardware sensors available from Topcon will all perform precisely in the field. But what connects you to the office and to the updated BIM model? What really drives your productivity? The software.

Topcon software is the leader in cloud-based workflow, intuitive operation, and modular services. From operating your entire positioning enterprise, to simple, graphical layout — Topcon software products make your BIM workflow easier than ever.

The products shown are an example of the most popular BIM software. There are different modules available based upon the specific requirements of the application. Please contact a Topcon distributor or visit our website to learn more.

### MAGNET Enterprise

MAGNET Enterprise is a web-based solution to manage your field and office data in the cloud. Track your assets and communicate with all those involved on projects.

- Cloud storage
- Real-time asset tracking
- Project planning



### MAGNET Office

MAGNET Office is a stand-alone processing and modeling solution for construction, BIM, surveying and grading applications.

- Process and adjustment
- Design review
- Cloud connected



## MAGNET Construct

MAGNET Construct enables you to measure with confidence and perform construction stakeout. MAGNET Construct enables you to measure and layout points and lines with confidence.

- Android Platform
- Simple, fast interface
- Cloud connected



## MAGNET Field Layout

MAGNET Field Layout is a specialty module that increases building layout productivity. With in-the-field plans and dimensional entry, you can go from plan to building layout faster than ever.

- Ideal for LN-100
- Total station and GPS ready
- Cloud connected



## MAGNET® Explorer/Modeler

Model and design software that drastically improve projects. MAGNET Explorer is perfect for construction projects where multiple design disciplines need to be handled as one. And MAGNET Modeler makes time consuming tasks automatic, saving you money while delivering professional quality results.

- Multi-disciplinary model management
- Easy-to-use interface
- Integrate smoothly into existing tools



## Autodesk® Point Layout

Autodesk Point Layout software enables construction professionals to use BIM coordinate information in the field.

- Points from models
- Connects to Revit, Navisworks and AutoCAD
- Improves office and field efficiency





## 3D Layout Tool Designed for Construction Layout

The LN-100 is a revolutionary new 3D layout tool with a design based on simplicity. Designed specifically for construction layout, LN-100 eliminates the fear of complex setup and operation of traditional surveying or construction instruments. This latest Topcon innovation provides high accuracy 3D positioning for all your construction layout needs, all in a rugged, easy-to-use design.

Topcon has blended the technology used for self-leveling lasers and robotic total stations into a new tool designed specifically for construction layout. With the press of just one button, the LN-100 automatically levels itself and is ready for operation. Simply use the wireless controller for simple point layout or CAD drawing layout. Never before has construction layout been so powerfully simple – only with the Topcon LN-100.





## Real-time Video Imaging Robotic Total Station

The DS-200i is a mid-ranged professional motorized total station designed for the construction professional who is looking for productivity enhancement from servo motors and auto-tracking technology. The MAGNET® on-board software intuitive interface assists with image capture and photo notes of field activity. For even higher productivity levels, use a field controller with MAGNET Field software for robotic, one-operator control.

Work directly on the bright, color touch screen or with the alpha-numeric keyboard, to achieve higher levels of production with MAGNET Field on-board software. The DS-200i total station can be used on a wide variety of applications, from building layout to earthwork volumes and land surveying.



## MAGNET®

### Suite of Software Solutions

Control your business and improve your profit with MAGNET® software. A customizable, integrated full range of software solutions that help you increase productivity at every stage of your project.

The MAGNET system of software solutions works seamlessly with our 3D products and helps streamline your jobs.

Plan, manage, and oversee projects to better track and oversee your assets. Through the MAGNET system, there are automatic connections to Autodesk software — single file transfer from Civil 3D environment out to Topcon construction and survey solutions. Simplify processes, and reduce chances for errors.



Sitelink3D MAGNET Enterprise

https://www.magnet-enterprise.com/app

# MAGNET enterprise

Data Manager

Project File Report Cloud Options

Company Inbox

Projects

- All Project
- Bonny Doon Test3

FILE NAME	TYPE	FROM	RECEIVED TIME	FILE SIZE
Rogers Bldg	mjf	Magnet Sales Team Lang...	2014-10-29 10:33:12	1.24 MB

Feed Reader

- Enterprise 1
- Field 0
- Office 0
- Time 0

Map

- TopNET live Networks
- Projects
  - All Project
  - Bonny Doon Test3
  - IS PGA
  - Magnet Training
    - MAGNET Field.mjf
    - Magnet Training.mjf.zip
    - Rogers Bldg.mjf
  - PPS Open House
  - Real Time 2
  - Utah Field Data
  - World Of Concrete 2013

Location: Search





## With You All The Way

No matter what size your company is, what role you have, or what phase of a project you are working on — we've got the solutions and services to help you get the job done right the first time.

## Topcon Enterprise

We're dedicated to helping you solve your workflow challenges, and get the most out of your Topcon solutions.

Topcon Enterprise gives you access to a large collection of online materials, software and firmware updates, current publications, tech tips, and guidance from the experts - all from your computer or mobile device.





[www.topconpositioning.com](http://www.topconpositioning.com)

