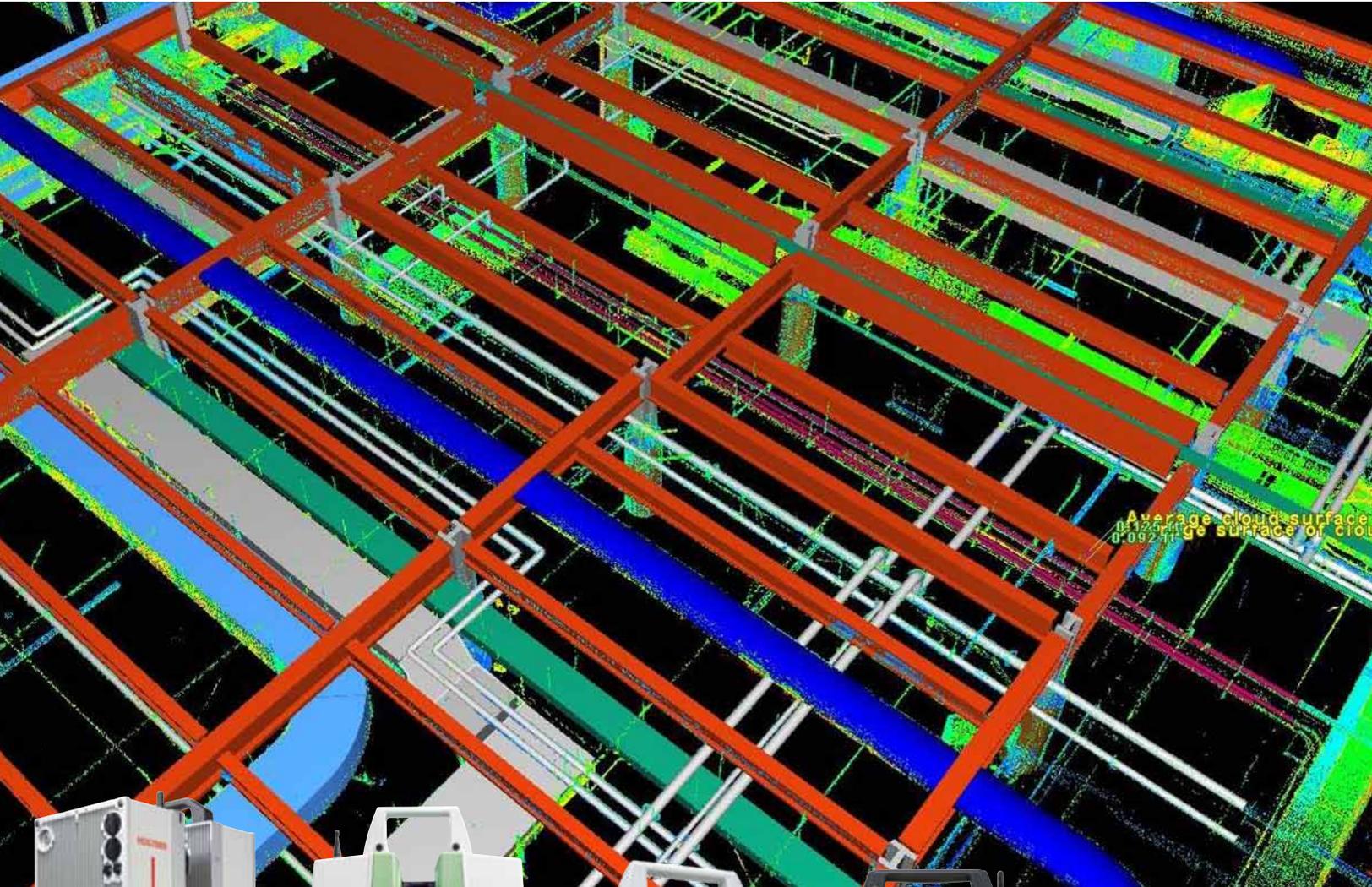


# Leica Geosystems Solutions for BIM



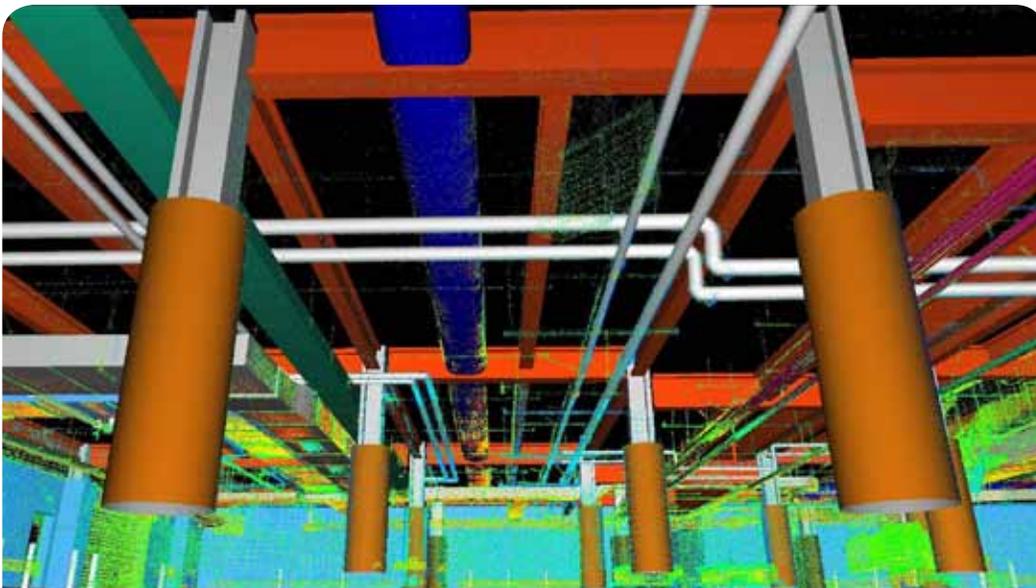
- when it has to be **right**

**Leica**  
Geosystems

## ● High-Definition Scanning

In the BIM and VDC – Virtual Design and Construction environments, 3D laser scanning is one of a number of solutions that Leica Geosystems provides. The ability to capture accurate as-found data with laser scanning results in more accurate 3D models, which aids in analysis, design and construction. Leica Geosystems customers currently use laser scanning on a multitude of BIM projects including Process, Power and Plant, Institutional Buildings, Civil Infrastructure, and many more markets.

- Accurate As-builts
- Complete HW/SW solutions
- Market Leaders
- Trusted Quality



Leica Geosystems 3D laser scanners were used to create as-built BIM of Portland International Airport's baggage handling facility.

**“ We believe that BIMs built on scanning data are the next wave in facilities management... and the stakes are really high, because many thousands of dollars are spent improving and upgrading a building during its lifespan.”**

- Dale Stenning, operations manager of Hoffman Construction

## ● HDS7000 Laser Scanner

### Ultra High-Speed with Extended Range

Within the practice of using 3D laser scanners to remotely capture detailed, "as-is" geometry of structures, sites and scenes, phase-based scanners are known for their ultra-high scan speeds and their high level of detail. Adding to this basic speed capability (> 1 million points / second), the HDS7000 phase-based scanner provides important "next level" performance features for demanding professionals.

- Ultra-high speed scanning with more than 1 million points / second
- 360° x 320° Field-of-view
- Dual-axis tilt compensator



## ● ScanStation C10

### Versatile Scanner for Any Application

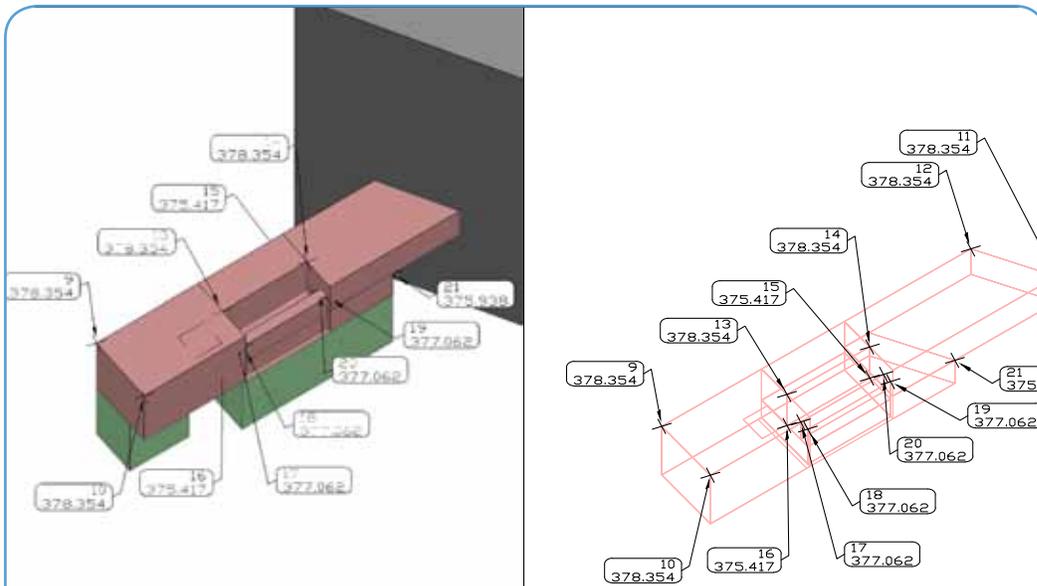
The "All-in-One" ScanStation C10 delivers a faster payback for your investment in High-Definition Surveying™ (HDS™). The ScanStation C10 platform represents the most capabilities and best value packed into a single laser scanner instrument. Users can take advantage of surveyor-friendly, onboard total station-like control or use an external laptop for even more powerful, onsite viewing and data processing.

- As-found conditions surveys
- Structural monitoring
- Clearance checking
- As-built surveys



## • Total Stations

Construction applications require the layout of the 3D digital model in the field. In order to transfer the spatial information. In order to relate the spatial information contained in the BIM, we use Total Stations, Theodolites and other Surveying instruments to locate points and take them from the virtual space to the real space. Total Stations make the layout of these locations seamless and visual for the field user, bringing not only the point information but the entire layout drawing to the field for the user to see and work with.



Hoffman Construction uses Leica Total Stations to create accurate BIM models.

**“ Having 3D elements speeds up the design process tremendously. We poured 15,000 yards of concrete in 5 months averaging 150 yards a day. Without a direct interface from our BIM software to our Total Stations this would not have been possible”**

– Scott Adams, Hoffman Construction in Seattle, WA



## ● Leica TS15i Fast Imaging Total Station

Once the points have been located, the TS15i Imaging total station allows users to collect visual verification of the layout point and the conditions of the location to the database. The visual information can be expanded on by users right in the field, allowing the addition of specific details that are not obvious in the image.

- Direct BIM point data base support
- Usable background maps with layer support
- Full Imaging abilities for all measurements
- Complete manual or Robotic functionality
- Onboard or controller software options

## ● Leica Builder Series Perfectly Tailored for Construction Tasks

**For anybody working on or around a site with the need of a simple, intuitive, yet innovative, long-lasting and powerful measuring tool.** With the Leica Builder, Leica Geosystems has designed a perfectly tailored tool for every construction job. From simple tasks to professional all-day use, the Builder Series offers a scalable product solution that exactly meets your needs.

- **Workflow designed by construction people for construction applications**
- **Uses construction terms and terminology in all menus**
- **Full featured total station benefits:** wireless communications, dual axis compensator, on-board internal memory, data import/export via USB stick or cable, 3 on-board language at one time (9 available), excellent battery life
- **Typical Applications:** Batter Board setup, Line layout, Area Calculations, Volume Calculations, Slope or % Grade calculations, Anchor-bolt placement and alignment, Q A checks, As-builts



# ● Leica DISTO

## Recreating the Real World

The Leica Disto is the safest, fastest, easiest, and most accurate way to measure allowing architects, engineers, project managers and contractors to quickly measure distances, volume, square footage, angles and a lot more all with pinpoint accuracy.

- ± 1mm accuracy and up to 150 ft range depending on model
- Six models to choose from
- Quick keys for ease of use
- Easy to read screens
- Inclination sensor for true horizontal and angle measurements (D330, D330i, D5, D8 models)
- Large full color display screen with digital viewfinder (D5 and D8 models)
- Bluetooth™ connectivity (D330i and D8 models)



Disto D2

Disto D210XT

Disto D330

Disto D330i

Disto D5

Disto D8

## ● Leica 3D Disto Versatile Measurement

The Leica 3D Disto defines the category of intelligent measurement tools for BIM and layout at interior construction sites. It is a truly revolutionary tool with the ability to measure, project, or record to any location in a room or around a building in three dimensions while visualizing and documenting the results immediately on a high resolution display.

- Measure positions in 3D
- Measure from one station or relocate protocol for multiple areas
- Measures difficult to reach points
- As-built records
- Real-time display of measurements as drawings on a screen
- Precision: accurate to 1mm at 10m and 50m working range
- High resolution touch screen control unit
- Wireless connection eliminates cables
- Digital point finder with on-screen targeting and 8x zoom for long distances
- Integrated camera



## Leica Geosystems – when it has to be right

With close to 200 years of pioneering solutions to measure the world, Leica Geosystems products and services are trusted by professionals worldwide to help them capture, analyze, and present spatial information. Leica Geosystems is best known for its broad array of products that capture accurately, model quickly, analyze easily, and visualize and present spatial information.

Those who use Leica Geosystems products every day trust them for their dependability, the value they deliver, and the superior customer support. Based in Heerbrugg, Switzerland, Leica Geosystems is a global company with tens of thousands of customers supported by more than 3,500 employees in 28 countries and hundreds of partners located in more than 120 countries around the world. Leica Geosystems is part of the Hexagon Group, Sweden.

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