

Leica Geosystems intelligent CONstruction.

Whether you construct buildings, roads, bridges or tunnels, you benefit from intelligent CONstruction. Leica iCON is more than a new product line or software package, it enables you to enhance your performance and increase your profitability through perfecting your construction workflow.

Understanding construction demands outstanding solutions:

- Custom-built
- Complete
- Straightforward
- High performance

When it has to be right.



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Leica iCON site Brochure

Leica Builder Brochure

Leica Rugby 800

- when it has to be **right**

For more information on leica iCON products and services, please visit: www.leica-geosystems.com/icon

Leica iCON build

Custom-built Solutions for Building Construction







Leica Geosystems intelligent CONstruction Enhancing your performance

Leica GeosystemsYour trusted partner

Fully understanding construction carried us beyond the ordinary. Leica iCON is more than a new product line and a software package, it enables you to enhance your performance and increase your profitability through perfecting your construction workflow.

iCONstruct

Tailor-made hardware and software solutions for positioning and measuring tasks on site

- Custom-built
- Straightforward
- Extendable
- Interchangeable



iCONtrol

Provides you with a comprehensive portfolio of powerful machine control solutions that communicate seamlessly with your iCONstruct sensors on site and office software.



- Intelligent and flexible control system for construction machinery
- Reliable and seamless sensor communication
- Streamlined workflow & data handling



iCONsult

An extensive support network, with clear guidance on intelligent CONstruction benefits to grow your business.

- Worldwide network
- Personal service
- Professional consultancy



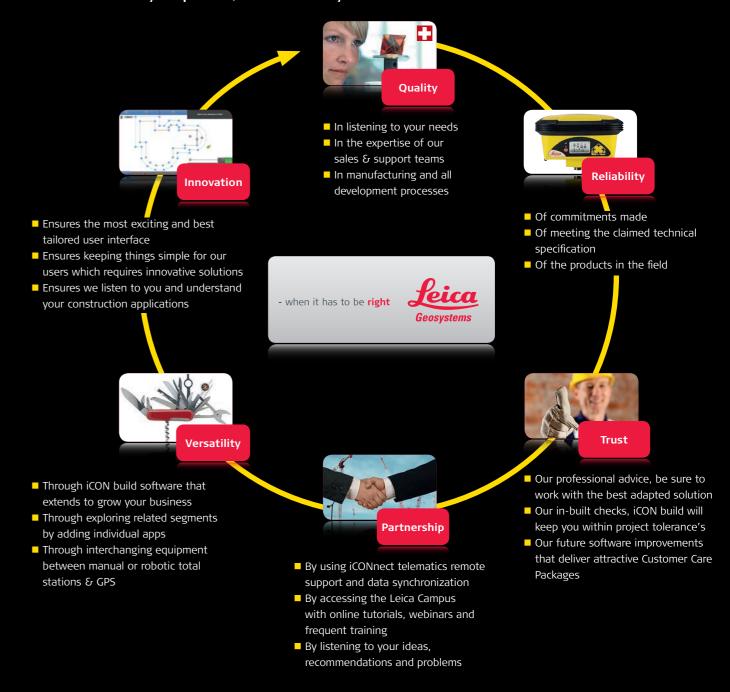
iCONnect

Offers easy data transfer from office to site and machine, remote support for operators on the machine, and basic fleet management functionality.



- Simplifies work processes, saving time and cost
- Instant guidance and checks
- Real-time data guarantees accurate jobs
- High productivity

A site only works if all parties involved can expect professionalism in the execution of the individuals' tasks - resulting in strong partnerships. To ensure that Leica Geosystems fulfils highest expectations and is chosen as your partner, we continually focus on six areas.



Leica iCON build Profit from your investment

Measure Bar + Info Panel Selectable measure functions visual and data and measure audio feedback, linked results including to controller hard key to trigger measurement auto-switches to app specific task bar insert 50 0.044 N 0.2 m 0.044

Intelligent map controls including Smart Zoom

contents of map with Point List, File & Layer

& Auto-Pan. Manage data & graphical

controls and clever viewing options

Tie in with the iCON world

Learn how to increase effectiveness: "be quick" plus "be

iCON telematics connects the office to iCON build on site.



Send design changes to the field to make

- Record as-built data and report back to office or inform pre-fabricating
- No physical transport of digital data, all in real-time

Always work with the most up-to-date plan

- Remotely & online support your field crews
- Avoid site re-visits: let office verify captured data before leaving site



Learn how to extend your business





- iCON built extendable to civil engineering applications: no need to learn
- iCON robots ready for machine control: no need to invest in additional
- Hot swap features to change between one-person and machine control
- Simple upgrade mechanisms





Cost of

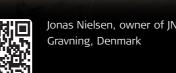
Ownership

Lancaster, California USA

Project: Construction sub-contractors **Application**: Standard layout tasks

"On one recent project, a 30,000 square-foot building, we had a total of able to do the work in two days," says Prascsak, "Previously, that would have





Project: Preparing the terrain for a large house-building project Application: Stake out

"Where technologically based measuring equipment is concerned, in just a couple nothing to a two-man manual Leica Builder R200M solution and recently to the most advanced equipment in the robot 50 total station," says Nielsen.





High quality, lowest cost of ownership

Leica iCON with its high quality manufacturing

and a range of Customer Care Products,

ensures significantly reduced downtime.

Periodic preventative maintenance will

maximize productivity through training and

offers the lowest cost of ownership and

innovative software improvements. Leica iCON

Project: Construction concrete footings Application: Layout

"It's a daily saving for me," Poortinga says. "I'm not only saving on those parts of the job they don't need to do anymore, but I can have them focus on other parts of the job that make it better. Instead of having three guys together to do a layout, one guy can do that while the other guys focus on the other details of the job, such as putting foundations together and making sure we aren't missing the drops."



iCON build pays off

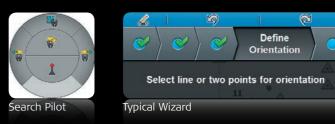


Leica iCON build

Straightforward software design



- One software solution: covers all your measurement tasks
- Learn only once: iCON build user interface works with all the iCONstruct equipment, both GPS and total stations
- Speed up: get familiar with simple and intuitive software in minutes
- Focus on the job: let built-in intelligence guide you to results



■ Do it right: colour coded warning system forces to keep tolerances



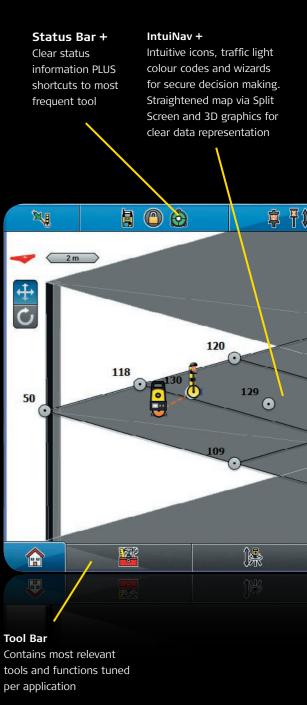


Learn how to manage your data flow

- DXF direct: import DXF files with no need for prior conversion in the office
- DXF "clean-to-field": eliminates unused data Point List: structures points per work step
- MapOPS: treat layers and files the same way

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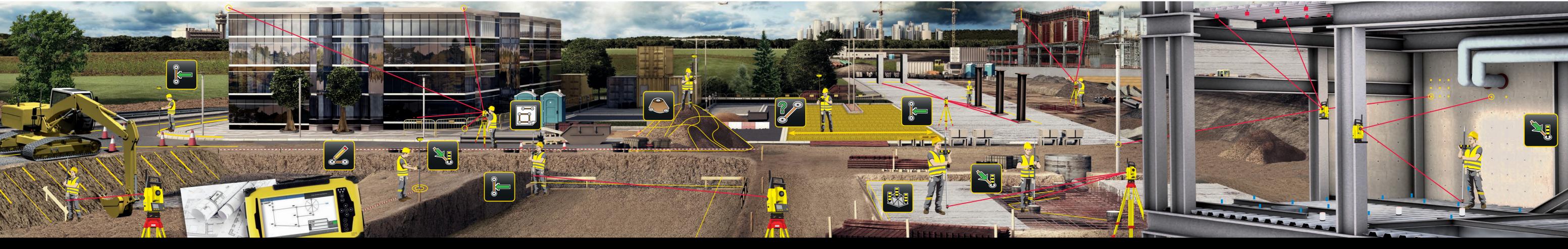


Understanding construction.

Understanding construction.

Leica iCON build

The complete solution for all positioning and measuring tasks on site



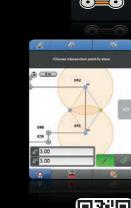
Leica iCON build provides unmatched versatility and flexibility.

It enables you to carry out all positioning related tasks with just one solution. In addition, each iCON build application offers unique features and benefits,

toolbox.

iCON build is part of the providing you with one solution for all your entire job site. iCONstruct offers you the possibility to extend and

customize applications according to your needs.



- Point Pilot for fast and intuitive input of plan dimensions
- bolts, patterns etc. within

- Easily replicate digital blueprints
- Immediate response to changes
- Update plans to reflect true



- Layout control lines, parallels, perpendiculars or arcs and align structures in relation to them
- Apply horizontal and vertical offsets
- Aligning columns and anchor bolt
- Simply rebuild and extend incomplete Monitor offset value to speed up form
- Repeatable positioning of profile boards and precise transfer of alignments eliminating risk of board damage









relation to your material Read out balanced site elevation Accurate and flexible volume calculations, independent of size or shape Calculation of truck loading considering compaction factors Balance out Cut & Fill for optimised

Calculate volume of a stockpile or

or to the elevation

Apply compaction factor in

pit, comparison between surfaces



Mark the daylight line on original surface

- Define grades for excavations
- Install batter boards as slope

foundation piling

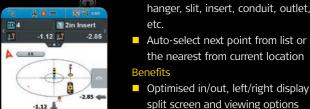
- Simple definition of slopes in %, degree or ratio in the field Graphical representation in top and cross-section view
- elevation and position in sloped



Check distances (horizontal, vertical,

- Check grades and angles
- Check area and perimeter in 2D and 3D Info panel shows all results at a glance supported with graphics in map
- Verify on site correct placement of
- walls, formwork, columns, pipes, etc. Decide in the field based on facts rather estimates
- Precise input for pre-fabrication of manholes, ventilation systems, windows or orders of sand, pavement, etc.





Simply lay out sketched or imported

hanger, slit, insert, conduit, outlet,

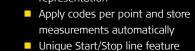
the nearest from current location

points directly from the map

Intuitively navigate to selected

- split screen and viewing options Colour code clearly indicates quality
- precision and reduce errors Important point info available as code in info panel, e.g. "3/4" insert"





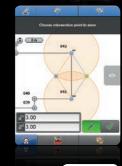
accelerates line creation

Capture points, lines or arcs in one

- Reduce site visits by visually verifying the measurements in the field
- Assign as-built data to individual layers while collecting points
- Store accurate 3D data as base for any CAD/BIM office operation or architectural planning





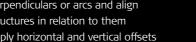






Create points, arcs, lines, anchor

- Fix incomplete data in the field
- by adding missing structures



Stake out strings to mark elevation for





