

Leica iCON excavate 41

The future of excavating



Pushing dirt or laying down concrete or asphalt, we've got the solution you need. Whether you need simple laser height detection for excavators or need to control a concrete slipform paver to millimeters, Leica Geosystems can help you optimize site productivity with a complete range of machine control solutions. Plan your own upgrade path to full 3D machine control incorporating GPS navigation, terrain modelling software and automatic blade control.

Dozers, graders, excavators, concrete pavers and asphalt finishers are just some of the construction machines that can be fitted with scalable, tough and reliable Leica Geosystems construction machine control systems. With a wide range of support services to choose from, Leica Geosystems helps you master your site.

When it has to be right.



Total Quality Management –
Our commitment to total
customer satisfaction.

Ask your local Leica Geosystems
dealer for more information
about our TQM program.

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iCONtrol
Brochure



Leica iCON site
Brochure



Leica iCON grade
Brochure



Leica iCON excavate 41

The best of both worlds

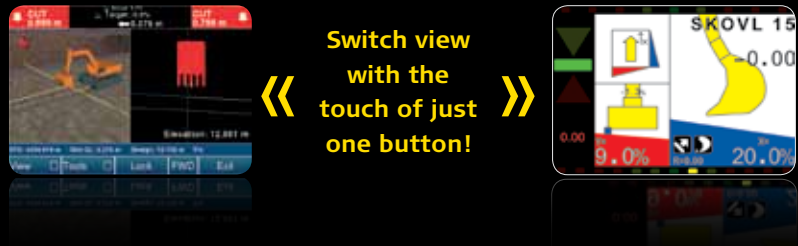
With the new Leica iCON excavate 41 system, Leica Geosystems introduces the next generation cutting edge excavator guidance solution, combining the unique capabilities of Leica iCON excavate 31 excavator control system with industry leading iCON 3D machine control software.

iCON excavate 41 allows the user to work with dual grade functions in 2D as well as reference models and GPS in 3D. Switch views with the touch of just one button!

iCON 3D software allows the user to create simple terrain models directly in the control box – a feature providing great flexibility in the field.

The unique PowerSnap concept makes system setup easy and flexible. Just click the control box in the cradle and go! Data is transmitted via infrared and power via induction – no cables required.

Technical Specifications Control box	
Weight	1.6 kgs
Dimensions	22 cm x 16.5 cm x 6 cm (WxHxD)
Installation	Wireless Snap-on and Snap-off connection – IR & induction
Display	7" touch screen



Benefits of iCON excavate 41

- Work directly from CAD models
- Switch between 2D and 3D view with the touch of just one button
- Full guidance with rich 3D graphics – see the job how you need to, see cross-section, profile and 2D/3D view
- Create simple terrain models directly on the screen
- Compatible with most makes and models of excavators on the market – even dual boom excavators supported
- Simple & intuitive user interface – allows users to become confident and highly productive quicker
- Construct complex geometries, profiles and grades in a fraction of the normal time. Handle "blind" and underwater excavation with ease
- Work without boundaries - increase machine productivity by reducing dependency on site survey teams
- Eliminate over excavation and costly material overruns
- Upgrade easily from 2D to 3D in the same control box

Leica iCON telematics

The perfect office – site connection for maximum productivity

The iCON excavate 41 system supports Leica Geosystems' unique iCON telematics services which enable you easy data transfer from office to machines, remote support and basic fleet management via the iCONnet website.

Benefits

- Less site visits for machine control support from site supervisor to check settings on the machine
- Instant remote support reduces machine down time and maintains productivity
- Easy monitoring by site supervisor if correct data are used on the machine
- Quick design data and firmware updates without having to drive to the site
- Supervisor can monitor the fleet management activities remotely and generate reports based on historical data



Advanced 3D guidance

Leica iCON excavate 41 revolutionizes ease of use and efficiency of excavating. The system uses 3D design (CAD) models and state of the art GNSS technology to guide the operator. Design information and real-time cut/fill indications are displayed in the cab on your control box, allowing you to rapidly excavate to the reference design. The system eliminates the need for grade checking, increasing both safety and productivity.

Work with a wide range of popular data formats including LandXML, DXF/DWG surface models, Polylines and all GEO formats. And even create simple design models directly on the iCON excavate 41 control box without leaving the cab!



PowerSnap – Providing a new level of flexibility and user convenience

The PowerSnap Concept offers you plenty of great advantages:

- System is up and running in no time
- Rapid interchange of control panels between machines, giving you extra flexibility on site
- One PowerSnap cradle for all iCON excavate and iCON grade panels
- Easy removal of core components for overnight security
- Contact and cable free connection to control box
- Safety shut down feature protects system and data
- Cradle stores machine specific settings such as hydraulic tuning
- Unique patented Snap on/Snap off capability