

Leica PowerDigger 3D

The future of excavating

SitePOWER
by Leica Geosystems



- when it has to be **right**

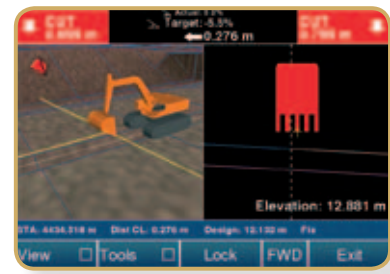
Leica
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Leica PowerDigger 3D – The best of both worlds

With the new Leica PowerDigger 3D system, Leica Geosystems introduces the next generation cutting edge excavator guidance solution, combining the unique capabilities of Leica PowerDigger excavator control system with industry leading Universal Machine Control 3D software.

PowerDigger 3D 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! UMC 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.



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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
Software	PowerDigger & UMC 3D
Display	7" touch screen

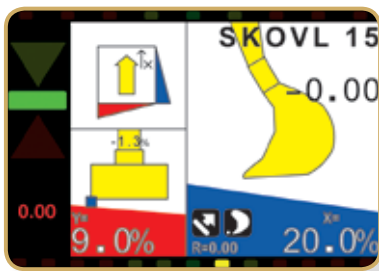
Advanced 3D guidance

Leica PowerDigger 3D 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 PowerDigger 3D control box without leaving the cab!



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System features

- Work directly from CAD models with Leica PowerDigger 3D
- Switch between 2D and 3D view with the touch of just one button
- User-friendly operation with touch screen and buttons
- The single-panel solution saves space and increases view from the cab
- 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

Benefits of Leica PowerDigger 3D

- Improve site safety – PowerDigger 3D removes the need for grade checkers to enter the earthworks area
- Eliminate over excavation and costly material overruns
- Work without boundaries – increases machine productivity by reducing your dependency on site survey teams
- Save money – reduced rework and increased productivity all add up to substantial fuel savings, as well as reduced machine hours, as the job gets done quicker!
- Construct complex geometries, profiles and grades in a fraction of the normal time. Handle “blind” and underwater excavation with ease
- Operator-friendly, easy-to-understand user interface reduces training time and costs
- Upgrade easily from 2D to 3D in the same control box
- Full payback on your investment can be achieved in one project

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 panels (PowerGrade 2D, PowerGrade 3D, PowerDigger 3D)
- 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



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 scaleable, 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.

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Leica PowerDigger Plus
The new enhanced
excavator control system



Leica PowerGrade
Cutting Edge
Grading Systems



Leica PowerAntenna
Superior GNSS
performance where
you need it