

Leica PowerDigger Made for all your Excavator Needs

Enhanced
Digging
Accuracy
of ± 10 mm

SitePOWER
by Leica Geosystems



Leica Geosystems presents the new PowerDigger Excavator Guidance System

If you think that an excavator guidance system is a new feature then think again. Our latest PowerDigger is just the latest in a line of site proven Leica excavator guidance systems.

Leica PowerDigger sets the Standard

PowerDigger provides excavator operators with real-time depth, slope and reach information, in relation to any reference, on an easy-to-read graphical display control panel mounted in the cab.

A highly visible LED light-bar gives the operator a quick reference to the desired level. An audible tone also gives the operator an 'on-grade' or 'near-grade' indication. All of the information necessary for an operator to do their job faster and more accurately is available in the cabin.



Reach for Productivity Gains with Leica PowerDigger

PowerDigger gives you the real-time information you need to increase the productivity of your machine by up to 50%. It's a reliable and flexible guidance solution that you can expand on to meet your future needs.

Benefits

- **Increased operator productivity**
Eliminate down time to make grade level checks.
- **Increased machine productivity**
Reach a better result with less passes! PowerDigger provides you the real-time information you need.
- **Reduced labour costs**
Reduces or eliminates the grade checking.
- **Reduced material costs**
PowerDigger ensures accurate digging exactly to your planned profile.
- **Solve specific problems**
Dig under water with full guidance.

- when it has to be **right**

Leica
Geosystems

Leica PowerDigger

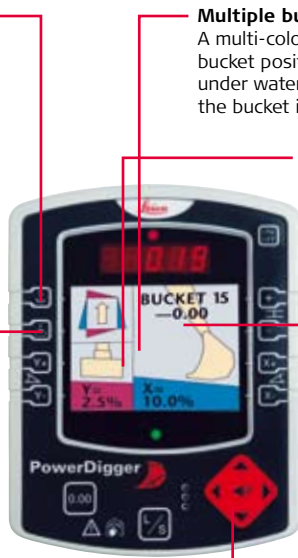
Made for all your Excavator Needs

With PowerDigger you will always know the exact position of the bucket. Advanced CANbus based accelerometers are used to measure the position of the boom, stick and bucket. These sophisticated sensors are designed for the

harsh environments including underwater. With no moving parts, the sensors are not only accurate but very reliable. When you are able to dig with centimeter accuracy the first time, material savings can be made and downtime minimized.

Quick key – multiple settings recalled
With the “Quick Key” 10 different user defined settings can be saved and recalled by the push of just one button.

Shortcut keys
These shortcut keys are used to access the most commonly used functions. Today most users choose to install the PowerDigger System as a dual slope system. Function calls related to the dual slope function have therefore been moved “upwards” as yet another shortcut key for fast and easy use.



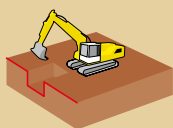
Multiple bucket displays
A multi-color bucket display visualizes the bucket position. Essential when digging under water, in deep trenches or whenever the bucket is out of sight.

Machine Heading Display
When working with both X and Y slopes the heading of the machine is clearly displayed on the LCD display.

4" Full Colour LCD Graphic Display
At just a glance you can overlook all guidance and status information on the crisp and clear LCD display – even in direct sunlight. This – combined with the bright LED numbers and possibility for guidance by audio signals – makes the PowerDigger System the most versatile system on the market.

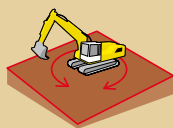
Easy navigation through menus
A QuickNav™ multifunction button has been added. This button will aid the driver to quickly navigate through the PowerDigger menus.

Complete System	
Technical Data	
Supply	9 – 28 V with full polarity and load dump protected
Operating temperature	-40 to +70 degC
Panel seal	IP66
Sensor seal	IP68
Display	3.5" LCD Colour Display
Accuracy	±10 mm or 0.2% of reach
Available Guidance Functions	
Preset depth	For accurate grading
Offset depth	For laying out multiple layers of material with known thickness
Preset slope in both x and y directions	For digging sloping trenches
Tilt bucket	No matter how you turn the machine the cross slope is displayed
Slope Measurement	For continuing an existing structure with unknown slope
Profiles	Copy an existing or design a new profile consisting of up to 10 points
Laser as height reference	Get your height reference from a rotating laser
Ground marker as reference	Use a survey marker, stringline or just the earth surface as a reference
Transfer heights	From one point to another
Dig blind cuts	Be guided to correct slope, depth and optimal bucket position under water or in deep trenches
Height alarm	Be warned before the machine touches overhead power lines, bridges etc.
360deg compass, pitch and roll sensor	Total attitude compensation for highest possible accuracy
Light bar	Use external light bar as peripheral On-grade reference indication



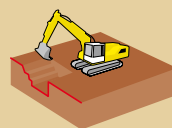
Trenching, Layering and Fixed Depth

Enter the desired depth and slope and PowerDigger will guide the operator in digging fixed depth jobs such as footers, as well as more complex work such as trenching and layering.



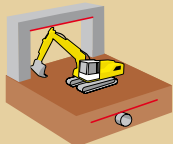
Dual Slope Option

When fitted with the dual slope option, the heading of the machine and the tilt of the bucket are clearly shown on the screen allowing fast and accurate digging.



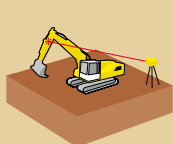
Slopes, Grades, and Profiles

Creating embankments and other single grades, just enter the desired slope and the system guides you. PowerDigger 'learn and dig' profile mode allows the operator to either manually enter a profile or copy an existing profile consisting of up to 10 different surfaces.



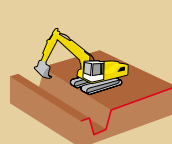
Height/Depth Detection Benefits

PowerDigger allows operators to set a height or depth alarm that alerts them if they exceed defined limits. An independent grade checker is not required.



Precision Jobs – Laser Mode Option

Integrate PowerDigger with a rotating laser to provide a precision reference height and slope. You can catch the laser in every direction of the chassis, even with slopes.



Blind Cuts

Working on blind cuts or underwater is simpler, faster and safer due to the clear PowerDigger graphical display of the bucket position.

Illustrations, descriptions and technical data are not binding. All rights reserved. Printed in Switzerland – Copyright Leica Geosystems AG, Heerbrugg, Switzerland, 2008. 762302en – 1.08 – RDV



Total Quality Management – our commitment to total customer satisfaction.

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

Leica Geosystems AG
Heerbrugg, Switzerland
www.leica-geosystems.com

- when it has to be **right**

Leica
Geosystems