

Leica PowerGrade Intelligent Grading Systems



Leica PowerGrade The uniquely flexible solution

Leica PowerGrade will revolutionize your construction process. It not only boosts your productivity and performance, it also offers unmatched flexibility and upgradeability.

Leica PowerGrade can dramatically increase machine utilisation, productivity and optimise material usage on any earthmoving and fine-grading contract. It can be used with a wide range of sensors and combines ease-of-use, unrivalled flexibility with very powerful and intuitive user interface.

The key to the Leica PowerGrade system lies in our unique PowerSnap concept – a single docking station allowing easy and quick exchange of panels. Simply swap the 2D with the 3D panel or even transfer the panels between machines. Just snap the control panel into place and get to work.



Key Benefits

Increased productivity

- Maximises your machine utilisation and return-on-investment from day one, by getting right to grade the first time
- Save time, setup and go in minutes. PowerGrade system remembers all your settings

Increased flexibility

- Unique Snap-on & Snap-off capability
- Easy removal of key components for overnight security. One docking station for all panels
- Fully scalable from basic 2D entry system to full 3D capability in the same control panel. Laser, slope, sonic, GPS and total station control options
- Simple upgrade step to 3D – buy a 3D-ready panel and upgrade later or rent the GPS/Tracker and 3D software

Reduced costs

- Faster job cycles reduce operating costs
- Reduce labor costs by reducing or eliminating grade checks

- when it has to be **right**

Leica
Geosystems

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Unrivalled Flexibility

Why be forced into buying a complete dozer or grader system for each machine in your fleet? Leica Geosystems' unique Snap-on and Snap-off capability allows you to change from one configuration to another as the job demands. For example:

Running in 3D GPS mode today and 2D laser mode tomorrow? –

Just switch the operating modes.

Using the grader one day and your dozer the next? –
Just transfer the control panel to the other machine.

The Leica PowerGrade system is easily upgraded and fully scaleable from basic 2D to full 3D capability in the same control panel.

For 3D solutions, there is a simple upgrade step: If you are not sure you want to make the whole investment today – just buy a 3D-ready panel and upgrade later. If you only need 3D for a short period you can rent GPS or Tracker sensors as well as the 3D software.

Automatic control of slope and elevation

The Leica PowerGrade system provides automatic control of both slope and elevation. Adding an extra mast and laser sensor even allows work independently of the slope

Technical Data

PowerGrade panel

Display:	3.5" TFT colour screen 300cd
Operation temperature:	-20° C – +60° C
Sealing:	IP67
Weight:	0,5 kg
Dimensions:	L 175 x W 125 x H 30 mm

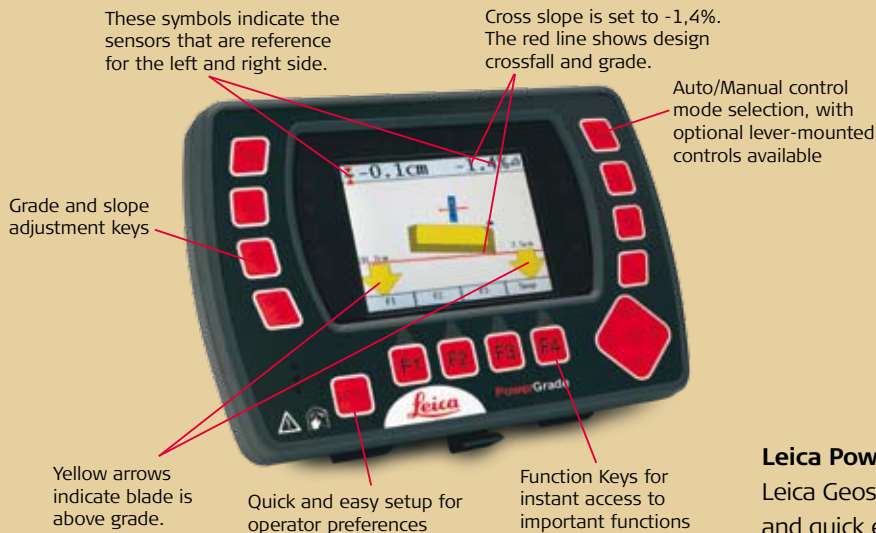
Docking station

Electrical input:	10 – 24V (via junction box)
IR communication:	1 Mbit
Supply:	ON/OFF switch for power control of the entire system
2 x CAN:	Junction box and J1939
Serial output:	2 x RS232. RX, TX, 12 V/2 amp, GND
Operation temperature:	-20° C – +60° C
Sealing:	IP54

direction. The system is ideal for contractors who want to further increase their machine productivity working with an easy-to-use, high accuracy grade control.

More advantages of Leica PowerGrade:

- Contact-free, sealed control/display panel – no more connectors or cables
- Fully graphic display guiding the operator
- Easy installation typically within one day minimizing machine downtime
- Automatic side-shift control for motorgrader moldboards with our unique Tri-Sonic technology. Works right off curbs, string-lines or 3D design models!
- Automatic power down when the control panel is removed. Machine specific settings are permanently stored in the docking station.
- Fully Waterproof system – designed for the harshest construction environments



Leica PowerGrade Docking station

Leica Geosystems' unique PowerSnap concept allows you easy and quick exchange of control panels and transfer of panels from one machine to another. Simple. Time-saving. Offering maximum flexibility in use.

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