

# Leica GradeSmart Universal Control System for all Grading Machines



>Fast >Accurate >Flexible



- when it has to be **right**

**Leica**  
Geosystems

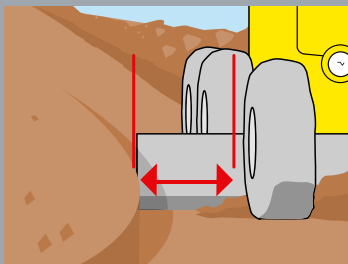


# Leica GradeSmart – Tailored for all your grading needs

Leica GradeSmart is the ideal partner for all your grading needs. With interchangeability between different machine types, GradeSmart will dramatically increase your machine fleet efficiency. Easy hardware and software set-ups, advanced pilot valve control, an integrated hydraulic tuning system and automated troubleshooting will lead you into a new dimension of grading.



## GradeSmart – Smart operation



**Side Shift**  
Automated blade control in lateral movement using Leica's unique patented feature.

- Intelligent screens guide the operator through all system operations.
- Integrated indicators show blade position and system status at a glance.
- Dedicated function buttons – Operators get a “feel” for the system so operation is second nature.

## Efficiency that counts

### Higher Precision

- Sideshift to precisely cut batters, grade crowns, etc.
- Slope sensors even at 100% grade are perfectly accurate
- Cross-coupling for parallel blade movement avoids “washboard effects”

### Time Savings

- Slope checks not required while grading
- Fewer passes are required
- Learning curve reduced to a minimum

### Cost Advantages

- Optimised machine fleet utilisation
- Higher machine efficiency
- Jobs are finished faster

### Reliability

- CAN-Bus on all sensors for proven reliability
- Sealing of all parts for long life and less machine down time

### Maximum Performance

- Low latency valves for immediate response to blade corrections for smooth grade surfaces
- Superior hydraulic tuning customised for each machine
- Pilot Control for advanced Dozer performance in 2nd gear operation



## One system for all grading machines



### Machine selection management

Intelligent screens and multiple language support makes interchangeability real – Operators can change between machines or systems.

Personnel only requires training on one machine type as interface is similar when used on several machines.

### Graders

Works on Graders with slope, single/dual ultra sonic, single/dual laser control and optional electric mast.

All major machine brands and types are supported with a full sensor range.

### Dozers

Works on Dozers with slope control only, single or dual laser control and optional electric mast.

Rugged system components allow for use in tough operating environments without compromising reliability or functionality.

## GradeSmart – Fully flexible system from one source



### Ultrasonic Sensor

Leica's patented Ultrasonic triangulation allows work on string line, curbs, and edges supporting sideshift operation.



### 360° Laser Sensor

C.A.B. Technology provides a constant accuracy band width regardless of distance and laser beam shape.



### 3D Grading Upgrade

Easy to upgrade to GradeSmart 3D with GNSS or Robotic Total Station.

Asphalt, concrete or earth, shifting it or laying it. Whether you need simple laser height detection for excavators or need to control a concrete slipform paver to millimetres, Leica Geosystems can help you optimise site productivity with a complete range of machine automation solutions. Plan your own upgrade path to full 3D machine control workstations 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 construction machine automation systems. With a wide range of support services to choose from, Leica Geosystems helps master your site.

### When it has to be right.

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**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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Product Brochure



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