Leica iCON grade
Intelligent Grading Systems

Key Benefits

- Enhanced productivity
  - Miniaturised your machinery, equipment and materials handling from site to site. You save on fuel, maintenance, and reduced travel time.
  - Shorter cycle times get you to work, the iCON grade system delivers productivity.

- Enhanced flexibility
  - Fully upgradeable from basic 2D entry system to full 3D capability in the same control panel. Easy access to 2D, slope, sonic, GPS and total station control systems. With a wide range of support services to choose from, you can control to a precision of laser, slope, sonic, GPS and total station.
  - Easy monitoring by site supervisor: If correct settings are not entered on the machine, the machine will not operate. Any warning messages will appear on the monitor.

- Reduced costs
  - Reduced fuel costs
  - Reduced maintenance costs
  - Reduced labor costs by reducing or eliminating rework of the work, and cutting up to 20% time and maintains productivity

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Leica iCON grade
Intelligent grading system

Leica iCON grade enables automatic control of both slope and elevation, including on or off road and can replace manual systems without independent operator labor. The system’s dock for conventional control allows for single-handed operations, making it easy to use. High precision grade control.

Fully-upgradable solution

The Leica iCON grade system is easily upgraded from basic 2D to advanced 3D with the addition of sensors and software. The system is designed for flexibility, allowing you to start with what you need and add sensors or software only when you need it.

For 3D systems, which are used for both the construction and mining industry, the system allows for complete automation of the machine, while retaining full control of your equipment. If you are looking for a system that can be easily modified to suit your needs, the Leica iCON grade system is the right choice for you.

CAN box

Leica iCON grade is also available with CAN box for better integration of machinery. If you have the data from the CAN box, you can now easily control the machine and upgrade your system to meet your specific machinery and application requirements.

2D System Configurations

Leica iCON grade 42 Advanced 3D Grading System

- 7" daylight readable colour touch screen
- Automatic power-down when the control panel is removed.
-on-the-fly, control the edge of the cut and crossfall, and operate, quicker and more profitable. Work at higher speeds, faster results without losing accuracy.
- 10 – 24 V (via junction box)
- Automatically detect the sensors to upload into memory.
- Full 3D capability. On the 3D panel, one option does not exclude the other and in case there is no GPS signal available you can continue in 2D with lasers, slope or ultrasonic sensors.
- One panel solution – switch between 2D and 3D with an intuitive keypad.
- Special features of Leica iCON grade 42:

  - One panel solution – switch between 2D and 3D with an intuitive keypad.
  - Two CR232. TX, RX, 12 V/2 amp, GND
  - Serial output: CAN bus, J1939
  - Junction box and J1939
  - Automatic power down when the control panel is removed.
  - Automatic Side-shift control for motorgrader
  - Contact-free control/display panel
  - 3D design models can be permanently stored in the docking station
  - Dedicated power management for extended battery performance
  - Auto/Manual information
  - Sensing mode
  - Auto/Manual mode
  - Hold Slope feature allows precise crown cuts and extending moldboards with our unique Tri-Sonic Tracer & PowerMast Laser Control System
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- The Leica iCON grade 42 system uses real-time digital data to control the motorgrader’s blade. The system monitors the slope and elevation of the blade and adjusts it accordingly. This allows the operator to work at higher speeds, faster results without losing accuracy.
- Highest precision at the fastest speed
- Unrivalled flexibility
- Universal solutions
- Operators require no previous computer experience.
- iCON grade is quick to learn and easy-to-use.
- Operator friendly
- Special features of Leica iCON grade 42:

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- The Leica iCON grade system supports 3D grading, allowing for more accurate and efficient grading.
- Work independently, and accurately, anywhere on the construction site.
- Contractors can now boost their productivity and performance even more while using the intuitive keypad.

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