



UNICONTROL3D FOR GRADING ATTACHMENTS

Unicontrol3D is a user-friendly 3D machine control system that provides automatic grading control for grading attachments, seamlessly integrating into fleets equipped with existing construction technology. This solution delivers precision and productivity through 6-way automatic blade adjustments and sideshift, helping you achieve exact finish grading.

By optimizing grading accuracy, you'll reduce costly rework and material waste, ensuring every project stays on schedule and within budget.

The intuitive interface allows users with no prior technical experience to quickly start grading with effortless precision using automatic grading control.

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UNICONTROL
MACHINE CONTROL MADE SIMPLE

HITECHNIQUES
SMART SOLUTIONS. DEDICATED SUPPORT.

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UNICONTROL3D



3D MACHINE CONTROL

AUTOMATIC
GRADING
ATTACHMENT
SUPPORT



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AUTOMATIC BLADE CONTROL & SIDE-SHIFT



The automatic blade control allows operators to set a desired slope/grade reference once, with the blade automatically adjusting to maintain the desired reference. By automatically adjusting the blade height and tilt, the automatic blade control enables operators to easily achieve and maintain a smooth surface or slope without additional passes or re-work, reducing fuel and labor costs.

INTUITIVE INTERFACE



Simplicity is at the core of the Unicontrol3D interface. For us, “intuitive” means that first-time users, even without prior technical experience, can start using the system straight right away, ensuring a true plug-and-play experience.

The press-and-hold navigation, combined with the easy access to key menu layers, makes the solution straightforward and ready for immediate operation. The system’s joystick integration provides easy access to offset adjustments and engaging automatics, resulting in an efficient grading process.

REAL-TIME GUIDANCE & EASY QUALITY CONTROL



Unicontrol3D’s real-time guidance provides operators with an immediate view of their grading progress on the in-cab tablet. This ensures tasks are completed accurately the first time—significantly reducing errors and rework.

Instant feedback on grading levels and slope angles increases operator independence, while improving overall fleet efficiency.

Documentation and quality assurance become seamless with precise data automatically synchronized between the office and the dozer.

UNICONTROL3D FEATURES

- 6-way Automatic Blade Control & Automatic Side-shift
- Joystick Integration to Unicontrol3D Interface
- Real-Time 3D Visual Guidance
- Screen Share Interface for Quick Remote Support
- DXF, LandXML & KOF File Format Support
- Support for External Radio Brands
- Shock- and Vibration Resistant GNSS Antennas & Masts
- Instant Data, Design File & As-built Synchronization
- Correction data: RTCM3.x, CMR & CMR+ (Internet or Radio)



ANDROID TABLET



GNSS ANTENNAS



BLADE SENSOR



RECEIVER



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