GradeMetrix®

GRADEMETRIX® DOZER

3D GNSS GRADE CONTROL AND GUIDANCE SYSTEM

Hemisphere®

GradeMetrix®

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GRADEMETRIX® DOZER

GradeMetrix® Dozer is packed with industry leading technology. It is easy to use and delivered at an affordable price. The system can easily be installed and calibrated.

From compact dozers to large mining dozers, all are covered by the mastless VR500 all-in-one Vector or VR1000 Dual Antenna solutions.

The GradeMetrix® system is designed to fit seamlessly into your existing site infrastructure using all the same design file formats and base station corrections. To ensure your peace of mind, all major components are covered by our best-in-class 3-year warranty.

New and experienced operators can dramatically increase accuracy, efficiency, and dependability with GradeMetrix® Dozer, resulting in significant ROI in your operations immediately.

GRADEMETRIX® KEY FEATURES

- Access to all GNSS satellite constellations; including GPS, GLONASS, BeiDou, Galileo, and QZSS. for maximum accuracy and coverage in difficult environments.
- GNSS receiver supports industry standard RTK formats including RTCM3.x, ROX, CMR, and CMR+
- 2.5D and 3D operation modes all come standard.
- Simplified user interface with multiple views including plan view, profile view, cross-section view, and more.
- Supports DTMs or 3D linework.
- Real-time Cut/Fill color maps are supported to show existing progress.
- Map projections and localized coordinate systems for simplified site alignment to existing designs and models.

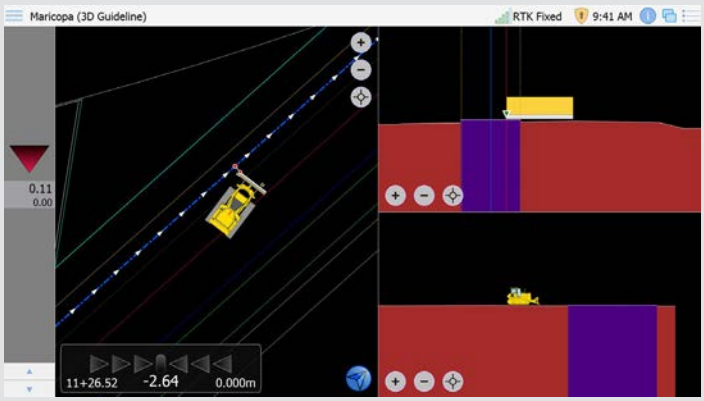
COST SAVINGS – EFFECTIVE IMMEDIATELY

GradeMetrix® Dozer offers immediate cost savings to your earthmoving activities. The simplified installation and calibration process gets your system up and running quickly. Our latest multi-frequency, multi-GNSS solution uses all available satellites in the sky as a standard feature. User access to a robust RTK solution in virtually any environment reduces expensive machine downtime, especially in difficult environments like open-pit mines or in urban canyons.

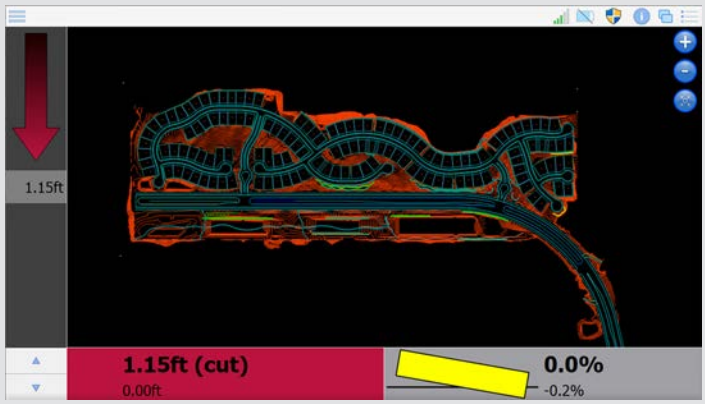
Use of the GradeMetrix® GNSS based system allows operators to match a slope or extend a pad, ramp, or ditch along existing ground features. Create new ramps and basic roads in the field on the display.

Intuitive Menu Design

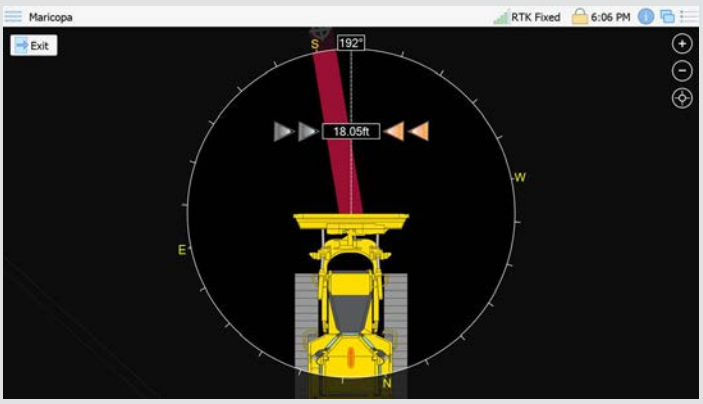
Multiple Views



Supports large DTM's



Navigation to a Point



OUR BENEFITS AT A GLANCE

- **RIGHT THE FIRST TIME** – Work Faster – Reduced reliance on operator skill.
- **MATERIAL SAVINGS** – Accurately calculate material volumes - Improve transportation cost - Control soil disposal cost
- **REDUCED SURVEY COST** – Manage site preparation and changes with in field design capabilities. Reduce rework. Eliminate stake replacement
- **IMPROVED SAFETY** – Eliminate grade checking personnel around machines. Reduce operator exits from equipment
- **3-YEAR WARRANTY** – Best In Class Warranty
- **EASILY ADAPTABLE** – Primary components can be moved quickly between machines

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USE GNSS AT EVERY SITE

The 2.5D function in GradeMetrix® Dozer allows you to use the Guidance Technology for an array of applications without the need for complex 3D files from a model maker.

Adding the optional Hemisphere C631 base station provides GNSS RTK corrections to your dozer.

2.5D eliminates the need for survey points, local transformations, and projections, resulting in faster work cycles and dramatically improved ROI.

RUGGEDIZED HARDWARE

GradeMetrix® Dozer solution is powered by hardware components that have passed extensive shock, vibration and environmental testing to withstand the harshest job site conditions.

Grademetrix is designed with support for the VR1000 and VR500 GNSS RTK heading receivers. Both receivers, with their integrated UHF radio, require a single cable connection to the IronTwo display. Multiple decades of experience merging GNSS technology with precision applications provides a simplified installation and calibration procedure.

VR500 GNSS RTK
Smart Antenna

APPLICATION EXAMPLES

ROAD CONSTRUCTION – MATERIAL LAYERING

SITE PREPARATION – COARSE GRADING

MINING – PASS-2-PASS GUIDANCE

IRONTWO RUGGED TERMINAL

- 10” (1920 x 1200 resolution) touchscreen
- Microsoft Windows™ operating system
- Sunlight Viewable display
- Easy and intuitive user interface
- Handles large 3D DTM project files
- Wi-Fi, Bluetooth, and ethernet support
- Integrated cellular modem for Ntrip corrections or remote/data support
- IP65 rating

VR500 GNSS RTK SMART ANTENNA

- Mastless position and heading RTK Smart Antenna for dozers
- Multi-frequency, Multi-GNSS GPS/GLONASS/ BeiDou/Galileo/QZSS capable
- Integrated 400MHz UHF radio
- Powerful WebUI, ethernet, CAN, serial, Bluetooth and Wi-Fi
- IP69K and MIL-STD-810G
- Hemisphere GNSS Athena® RTK engine
- Supports Hemisphere GNSS Atlas® L-band Correction Service

VR1000 GNSS RTK HEADING RECEIVER

- Multi-frequency, Multi-GNSS GPS/GLONASS/ BeiDou/Galileo/QZSS capable
- Rugged GNSS Receiver
- IP69K and MIL-STD-810G
- Integrated 400MHz UHF Radio
- Powerful WebUI with ethernet, CAN, serial, Bluetooth and Wi-Fi connections
- Hemisphere GNSS Athena® RTK engine
- Supports Hemisphere GNSS Atlas® L-band Correction Service

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