Work Smarter and Efficiently with AccuGrade® GPS Technology and Increase your Productivity.

Current earthmoving and fine grading processes are labor intensive and dependent on manpower and instruments. Maintaining consistent grade between stakes is challenging, even for experienced operators. AccuGrade GPS reduces labor requirements and helps operators work to the design plan by accurately cutting, filling and reducing material cost

AccuGrade GPS is designed for a wide range of construction earthwork applications, from bulk clearing with high production rates to finish grading with high tolerances.
Flat, single and dual sloping planar designs, such as pads, parking lots, roads and highways can be created on-board the machine using the AccuGrade GPS system. Complex 3D designs such as golf courses and roads with super elevations, can be created in the office by design engineers and loaded onto the system via a compact flash card.

Product Benefits:

Increases Productivity & Efficiency

- Increases productivity by up to 50%
- Reduces guesswork and costly rework by moving dirt right the first time
- Increases Material Utilization
- Reduces the operating costs

Assists with Labor Shortage

- Reduces labor requirements and costs
- Reduces need for staking, string lines and grade checkers
- Empowers operator to check grade from the cab.

Addresses Safety Concerns

- Removes grade stakers and checkers from the worksite and away from the heavy equipment.
- Safety interlock ensures blade is securely locked when system is inactive.

Improves Employee Satisfaction

- In-cab display brings the design to the cab.
- Provides more responsibility and job satisfaction
- Empowers operator with real-time results
- Improves operator skills and takes performance to the next level.

- Caterpillar is the first OEM to launch an integrated system across the product line. No other machine manufacturer is currently offering an integrated solution that can match Caterpillar.
- Machine Control and Guidance is going to become the standard in the construction industry because it increases the overall productivity so much that contractors who do not adopt it will be relegated to smaller jobs.
- AccuGrade Systems tend to pay for itself only after a few months thanks to the savings in materials that it would produce.

Call our specialist today for more information on how you can begin to use this new technology soon:

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Kelly Tractor Co. is ready to work with you in acquiring the AccuGrade®GPS system for your equipment and application.

Product Range and Applications:

AccuGrade® Laser: 2D for planar applications such as parking lots, building pads, flat roads.

The AccuGrade Laser Grade Control System is designed for a wide range of construction earthwork applications requiring tight tolerances and high production rates. Laser grade control is so accurate in fact, that in many cases these systems are required in project specifications or by general contactors in the construction industry. Field-proven and versatile, the dual laser system is ideal for fine grading of sites with flat, single or dual slope surfaces, such as industrial, commercial and residential building sites.

AccuGrade®GPS: 3D for golf courses construction, road construction inclined and complex, automatic blade control. For applications where accuracy needed is between 1.5 cm and 3 cm.

The AccuGrade 3D system uses GPS technology to compare the blade position to a three-dimensional computerized site plan and signals the operator or hydraulic system to raise or lower the blade to achieve the design requirements.

AccuGrade®ATS: 3D solution similar to GPS, for applications where accuracy needed is between 0.5 cm and 1 cm. Highway construction, tunneling applications or construction jobs between high buildings.

AccuGrade ATS is a high accuracy dynamic tracking system that uses an Advanced Tracking Sensor (ATS) to track a machine and monitor blade positioning. An ATS instrument on the work site is used to track a target, which is mounted on the blade of the machine, to determine precise 3D positioning.

AccuGrade®Cross Slope: for applications where accuracy needed is 0.1 degrees angle. Ideal for a wide range of applications, including cutting road slopes, ditches and embankments.

AccuGrade Cross Slope is a grade control system designed to control surface cross slope. Machine-mounted sensors are used to calculate necessary blade slope positioning to achieve desired cross slope of the surface. The system makes automatic adjustments to the left or right lift cylinder, typically performed by the operator.

AccuGrade®Sonic: Elevation control system

AccuGrade® Sonic is a grade control system designed to control surface elevation. The sonic system uses an ultrasonic sensor to maintain the blade at the same relative vertical distance to an external reference, such as a string line or curb and gutter.

For more information call:

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