



TERRAIN FOR GRADING — GUIDE OPERATORS TO HIGHER PRODUCTIVITY AND EFFICIENCY



Grading is a vital but less visible function that provides essential support for loading and hauling operations. Cat® MineStar™ Terrain for grading helps make dozer and motor grader operations safer and more efficient, which can make a significant difference to a mine site's bottom line. Terrain for grading helps operators get to the specified grade more quickly without surveying, guesswork or rework.

Benefits

- Increases productivity and accuracy through precision satellite guidance.
- Delivers easier, more accurate operation through automated blade control — boosting grading efficiency by as much as 50%.
- Reduces the need for survey work and boots on the ground near heavy equipment.
- Tracks machine locations and production volumes in real time.
- Minimizes rework by ensuring material is moved to the right place the first time.
- Shares files between all Terrain machines to allow updating of grade plans.
- Shows operators visual job progress feedback to reduce rework.
- Improves safety by keeping machines out of restricted areas and away from hazards.
- Measures dozer production volume to track the amount of material moved.
- Enables instant reassignment of operators, saving time and reducing miscommunication.
- Works with all grading equipment from Caterpillar and other manufacturers.
- Allows site supervisors to see the location of machines, assign tasks and validate design plans through mobile application.

Differentiators

- Industry-leading high-precision technology
- Integrated blade control with Cat dozers
- Integration with MineStar Command for dozing and Command for hauling autonomous solutions

Success Stories

- Canadian coal mine reduced hours by 44% for an annual savings of approximately \$500K.
- A U.S. mine cut its push distance by 50% — shortening cycle times and reducing the dozer fleet from five to four.
- A U.S. coal mine reduced production costs by 80%.
- A U.S. coal mine saved \$600K per year on three dozers.



TERRAIN FOR GRADING HAS DELIVERED REAL RESULTS

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- » Used in reclamation
 - » Paid for itself in less than 4 months
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- » 44% reduction in hours
 - » Savings of \$500,000+
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- » 0.15 reduction in CPT
 - » \$600,000 annual savings for 3 dozers
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- » Production costs reduced from \$1.25 to \$0.25 per yard
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For more information, visit www.cat.com/terrainforgrading or contact your local dealer.