

Topcon Millimeter GPS®

Precision elevation achieved



Smart Vertical Accuracy

Millimeter GPS® is the unique solution

Simple setup for remarkable efficiency



Dozer

Fine grading
with dozers



Grader

Fine grading
with motor graders



Miller

Milling for
road construction



Paver

Asphalt or concrete paving
and Curb & Gutter

Learn more at topconpositioning.com

 **TOPCON**

For Work That Matters™

Tight vertical tolerances - Millimeter GPS® delivers

Millimeter GPS® combines proven GNSS positioning and Lazer Zone® technologies to achieve high accuracy elevations with GNSS horizontal flexibility. Operators utilizing the MC-Max machine control system can visually locate the machine on the jobsite, understand the positioning of the machine and place material accurately and with ease through automation.

No more batter rails, stringlines or sprayed numbers on the ground

Unlike a standard rotating laser, which is primarily utilized for flat or sloping planes and loses accuracy over long distances, the Lazer Zone® transmitter can cover nearly 1000 feet horizontally and 30 feet vertically with millimeter accuracy. Combine transmitters to cover nearly 4000 horizontal feet for even more coverage.

- » High-accuracy grade reference covers the entire project and multiple machines and grade checkers
- » Combine up to 4 Lasers to extend your project limits

How does it work

Utilizing a Lazer Zone® receiver and a GNSS antenna, the rover or machine acquires the Lazer Zone® transmitter's signal, decodes the information and establishes a precise, millimeter level, vertical position anywhere on the jobsite. With no limit to the number of receivers used, Lazer Zone® is the perfect tool for establishing grade, grade verification and material placement.

Millimeter GPS® (mmGPS)		Local Positioning System (LPS)
Positioning		
Horizontal	GNSS	Total station
Vertical	Zone Laser	Total station
Control requirements		
Horizontal	GNSS-accuracy	Traverse
Vertical	Leveled	Leveled
Recommended range (horizontal/vertical, feet)		
Earthmoving	900/30 (with 4 laser: 3600/120)	900/70
Road Construction	400/20 (with 4 laser: 1600/80)	400/40
Number of devices in working range	1 Lazer Zone® transmitter for all machines and grade checkers	1 Total station per machine/grade checker



Specifications subject to change without notice.
© 2024 Topcon Corporation. All rights reserved. 7010-2419 A 08/24

Learn more at topconpositioning.com



For Work That Matters™