



Millimeter GPS™ Paver System

3D-GPS+ Positioning – Millimeter Accurate Paving

TOPCON
WORLD'S FIRST
Technology



Topcon's Millimeter GPS paving:
the simplicity of a laser, accuracy of
a robotic total station, and multiple
user capabilities of GPS...

- HIGH ACCURACY GRADE REFERENCE COVERS ENTIRE PROJECT - ELIMINATES STRINGLINE
- PROVIDES PRECISE VERTICAL MEASUREMENT FOR MULTIPLE MACHINES AND GRADE CHECKERS
- USE UP TO FOUR TRANSMITTERS TO EXTEND WORK AREA
- PAVE TRANSITIONS, EVEN THROUGH HORIZONTAL AND VERTICAL CURVES
- WORKS WITH EXISTING TOPCON GPS+ SYSTEMS



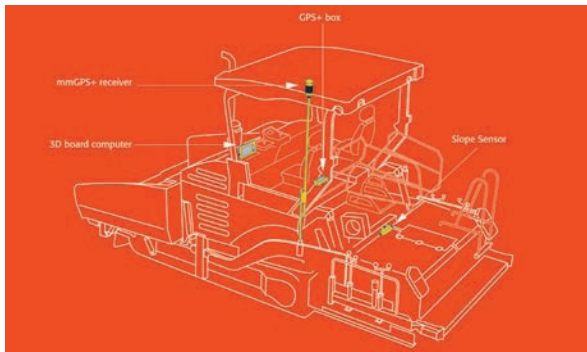
Free your paving from the confines of stringlines and other linear references and move production to the fast lane. Topcon's Millimeter GPS™ Paving is here!

Topcon's Millimeter GPS Paver System is the World's First GPS based millimeter accurate control for pavers. Topcon's revolutionary Lazer Zone™ technology based, Millimeter GPS uses GPS positioning together with a zone laser reference to give you unparalleled freedom and productivity. It also provides the flexibility to mix-and-match sensors to best meet the requirements of each job and the way you want to work.

Field proven components – proven to perform



Topcon's Millimeter GPS Paver System combines the field proven components of Paver System Five with the rugged, high-accuracy Millimeter GPS instruments and sensors. Mounted on the paver is the operator's interface to Millimeter GPS Paver System, the GX-60 control box. Able to control the two tow point cylinders independently the GX-60's color, graphical screen displays machine position on the job, and the sensors being used to control the left and right side of the screed, and current elevation and slope.



Topcon's PZS-MC Positioning Zone laser receiver with integrated GPS+ antenna is mounted to the tow arm on the left or right side of the paver. Other components on the paver include Topcon's MC-R3 GPS+ receiver and a slope sensor or Sonic Tracker II® for slope or elevation control of the screed opposite the PZS-MC sensor.

Customize Millimeter GPS to fit any job

Combine Millimeter GPS with Topcon's slope sensor for road, highway, or runway paving. Or use the patented Sonic Tracker II® for joint matching jobs like curb and gutter, or parking lots. The choice is yours, the flexibility of Topcon's Millimeter GPS makes it easy.



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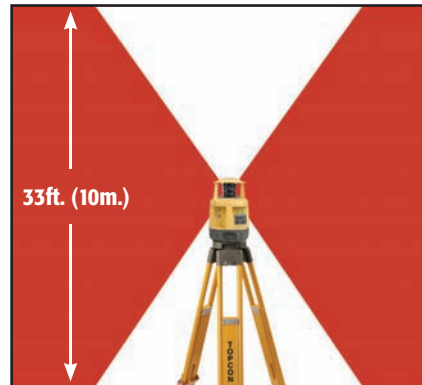
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Lazer Zone™ - the heart of Millimeter GPS



Topcon's PZL-1 with revolutionary Lazer Zone™ Technology operates similar to a standard rotating laser, transmitting a unique laser signal. Unlike a standard rotating laser that can only work in a flat plane, the PZL-1 transmits a revolutionary Lazer Zone™ signal that creates a measuring area 10 meters (33 feet) in height!



Positioned anywhere within the "Lazer Zone", Millimeter GPS Paver System's PZS-MC sensor instantly computes precise vertical information. No need to incorporate a moveable mast, the Lazer Zone™ Technology determines its elevation automatically. Even if your site has an elevation variance of 10 meters (33 feet), you never have to reposition your instrument or receivers!

For sites with significant elevations or large areas, up to four PZL-1 Lazer Zone™ transmitters can be "linked" to cover a larger area and elevation change of over 130 feet!



Like a rotating laser, Lazer Zone supports multiple users. Using a PZS-1 sensor and Topcon's FC-200 field controller on a grade rod, basic surveying tasks and grade checking are a snap. In situations where multiple PZL-1 transmitters are being used, each can be set to one of four signal channels. The system will transition seamlessly from transmitter to transmitter without disruption.

Welcome to the next generation of precision job site control technology!

Topcon. It's time.

Your local Authorized Topcon dealer is:

