



**LIGCHINE**<sup>™</sup>

BEYOND LEVEL<sup>™</sup>

 **TOPCON**

## 3D mmGPS PAVING SYSTEM



### Total Scalability

*Run multiple machines simultaneously on one system*



### High Precision

*Accurate to +/- 2mm with combination GPS and laser*



### Job Management

*Verify your work while screeding*

Ligchine<sup>™</sup> has partnered with Topcon Positioning Systems to offer you the world's most sophisticated GPS controlled (global positioning system) 3D screeding system. The combination of Ligchine's boom operated SCREEDSAVER<sup>™</sup> machines with Topcon's "mmGPS system" guarantees you amazing ease of use, significant labor savings, high volume production and world class accuracy for 3D contour concrete placement.

Topcon GPS systems are used worldwide on Dozers, Motor Graders, Curb Machines, Excavators, Scrapers and Asphalt Pavers. GPS machine control dominates the 3D grade application market with more than 90% market share and now it is available on SCREEDSAVER machines.

Ligchine/Topcon's GPS system can run a fleet of machines (including all models of SCREEDSAVER machines) from a single GPS base station and you have the ability to simultaneously verify your work with our included rover, insuring job site compliance and absolute accuracy at all times.

Already have a Topcon LPS system? We can easily upgrade you from LPS to GPS. Switching back and forth between the two systems is easy, as each system shares many of the same Topcon hardware and software components resulting in maximum flexibility and cost effectiveness for your business.

Profitability and ROI (Return on Investment) are crucial in the ever-growing, multi-billion dollar industry of concrete overlays and paving. The versatile SCREEDSAVER machines that place concrete on grade, slope, dual slope and 3D contours will position you to grow your business in affordable steps; into a wide variety of profitable opportunities and new markets.



# TOPCON 3D mmGPS COMPONENTS

## MACHINE CONTROL



GX-55 Control Box

The bright and robust GX-55 delivers the highest quality graphical interface experience for modern machine control. The GX-55 was designed to handle rugged field conditions as well as harness powerful processing power needed to instantly display real time position and project design information.



MC-R3 Machine Controller

Topcon's MC-R3 is the heart of Topcon's 3D-MC system. The MC-R3 contains all of the GNSS receivers, radios, and controllers in a single "built to last" housing. A built-in MINTER panel provides status lights and function keys for easy performance verification and system checks. The MC-R3 also features an Ethernet port, increased processing power over the previous generation box, and additional valve drivers to account for the widest array of machine compatibility.



PZS-MC GPS Laser Receiver

The PZS-MC sensors combine a GPS antenna with laser sensor technology into a total package. The sensors attach to the ScreedSaver™ laser eye poles on the screed head, and cables connect the receiver to the MC-R3 Receiver Box to send corrections to the screed's automatic leveling system.

## SITE CONTROL



LZ-T5 Laser Transmitter

The LZ-T5 Laser Zone laser transmitter is part of Topcon's Millimeter GPS positioning system and uses patented zone-beam laser technology to provide elevation information for GNSS positioning. The improved design improves performance in fluctuating temperatures and adverse weather conditions, says the company. Twin ergonomic handles enable carrying and mounting, and battery life has been extended by 20 percent.



HiPER V Base/Rover

Topcon's HiPer V GPS receivers are a compact, lightweight, and completely integrated GNSS receiver for static and kinematic applications. The HiPer V delivers world-class positioning and navigation capability by tracking signals from multi-constellation satellite systems including GPS, GLONASS, and SBAS.



FC-5000 Field Computer

Powerful, tough, and versatile, the FC-5000 brings the processing speed expected in the office directly to your project site. Your daily field computer just arrived and it set to impress with a sunlight readable 7" display, Intel Atom Z3745 processor, MIL-STD\_810G and IP68 certified, Windows 10 operating system, 8MP rear camera, 2MP front camera, and an integrated 4G LTE cellular module (optional).



PZS-1 Zone Sensor

The Topcon PZS-1 GPS Rover instantly computes precise vertical information from the PZL-1A laser transmitter. Using Lazer Zone technology, the PZS-1 automatically determines elevation based on your job site control. Mount the PZS-1 to your range pole, where it receives the laser signal and wirelessly transmits data to your existing HiPer V rover!