

3D LPS PAVING SYSTEM



- Economical**
Lowest cost entry point for a 3D paving system
- Pave Anywhere**
System operates “indoors” or “outdoors”
- Open Architecture**
Transferable to your fleet of other equipment
- Interchangeable**
3D controls shared between LPS and GPS

Ligchine International has partnered with Topcon Positioning Systems to offer the revolutionary ‘3D LPS’ system (local positioning system) for Concrete Paving as a ScreeSaver option. The combination of Ligchine’s boom operated ScreeSaver machines with Topcon’s “LPS system” guarantee you the lowest cost entry point into 3D paving; amazing ease of use; significant labor savings; high volume production; and world class accuracy whether operating indoors or outdoors.

This economical Topcon ‘LPS’ system utilizes an automatic tracking Robotic Total Station to register and maintain screed position from a machine mounted prism and sonic tracker. Height adjustments are transmitted to and from the screed at a rate of 20 times per second via radio signal to maintain accurate specifications on the defined jobsite plan. Since the LPS system does not require a GPS signal, it operates without limitations whether it is indoors, outdoors, or in areas with obstructed GPS satellite reception. The Ligchine/Topcon LPS system is not a proprietary system.

The LPS 3D system has been engineered to control Ligchine ScreeSaver machines, but equally important, you can easily move it to your other concrete and/or earth moving equipment to maximize your return on investment.

Already have, or looking to add mmGPS? Easily switch between LPS and mmGPS, or upgrade to mmGPS 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 ScreeSaver 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.



Shaping New Dimensions

3D LPS

COMPONENTS

Machine Control

GX-60 Control Box



Topcon's 3D paving systems feature the most advanced Operator interface available, Topcon's GX-60 touch sensitive control box. Light and compact with a full-color LCD touch sensitive screen, Topcon's GX-60 is a fully functioning Windows® computer that provides the operator with real-time grade information and control. Constructed of a strong cast housing and sealed internals, the GX-60 will be a refreshingly simple alternative to other operator interfaces.

MC-R3 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.



ST-3 Sonic Tracker



Utilizing multiple transducers, the Topcon's ST-3 will update the control box with accurate elevation information over the whole detection range. Its elliptical detection zone combined with the twice as fast pulsing transducers will provide a smoother and more predictable reaction to the detected surface on one side of the screed head.

Screedhead AT Prism

Topcon's 360o Auto Tracking Prism mounted onto the screedhead allows the total station to track and maintain height position for the finished concrete surface.



Site Control



PS-103 Total Station

The PS is a professional grade robotic total station. This new advanced & rugged (waterproof/ dustproof) design provides an onboard data collection interface, exclusive LongLink™ communication, and an incredibly powerful EDM. You can work directly on the bright, color touchscreen or with the alpha-numeric keyboard, to achieve higher levels of production with MAGNET™ Field onboard software.

RC-5 Communication Module

When connected with external data collector, the RC-5 Longlink™ communication provides license free communication. The Longlink communication is built in to the RC-5. The RC-5 has the ability to send a signal to the total station to quickly re-acquire the prism



FC-5000 Field Controller



Powerful, tough, and versatile, the FC-5000 is brings the processing speed expected in the office directly to your project site. Your daily field computer just arrived and it set to impress. Topcon's exclusive LongLink™ communication technology is built into the FC-5000 and provides the ability to connect and drive Topcon total stations and GNSS receivers wirelessly out to 300 meters. A field-ready IP-68 environmental rating means it's ready to work where you are.

Get in touch today:

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