


WORLD'S FIRST
Technology

Robotic based Local Positioning Grade Automation



**Topcon's new Total Station-based
grade and survey solution from
the World leader in survey
instrumentation...**

- SYSTEM PROVIDES DUAL USE AS MACHINE AUTOMATION CONTROLLER / SURVEY ROVER
- GRADE INFORMATION SUPPLIED CONTINUOUSLY VIA HIGH-SPEED RADIO
- THE PERFECT COMPLIMENT TO TOPCON'S GPS+ FOR CONTINUOUS PRODUCTION IN OBSTRUCTED AREAS
- CHOOSE FROM TOPCON'S WORLD LEADING GPT-9000A LONG-RANGE REFLECTORLESS OR GTS-900A TOTAL STATION TECHNOLOGY

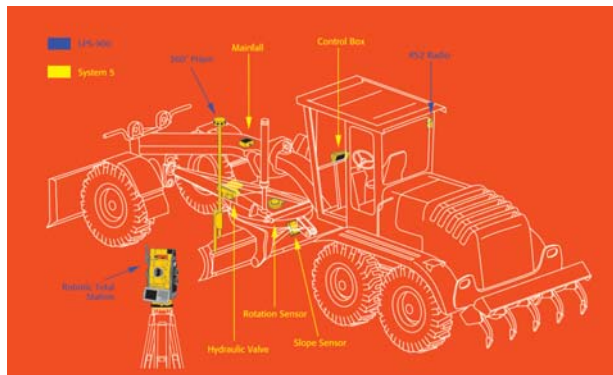


Topcon introduces the first seamless integration of traditional survey technology with the latest in local positioning and digital site plan based grade control...

Topcon's LPS-900 (Local Positioning System) sets a new standard for simplicity and standardization. All LPS-900 components are the same great field-proven Survey and Machine Automation instruments you've come to rely on, with no special modifications or features.



The heart of Topcon's LPS-900 system is the World's most advanced Total Stations, the GPT-9001A and GTS-901A. Both of these instruments feature Topcon's revolutionary X-TRAC auto-tracking technology allowing them to "lock-on" and track the machine, even at higher speeds. The systems also feature a 2.4Ghz radio used to communicate grade information, large QVGA color touch sensitive displays, Windows® CE.NET operating system, a 400Mhz Intel PXA255 processor, and a PCMCIA flash card port. The GPT-9001A also features the industry's longest reflectorless range. LPS-900 puts all of these features to work to create a unique grade control and Survey solution that allows you to work directly from the digital site plans.



Simple set-up – easy operation...

An easy addition to existing System Five and 3D-GPS+ systems, set-up is a snap. A 360° prism is placed on the blade vibration pole, and Topcon's RS-2 radio module is placed magnetically on the cab. With the site plans loaded in the 9168 Control Box you're ready! The 9000A or 900A locks on to the 360° prism, communicating machine location via the RS-2 to the 9168 Control Box. Continuously comparing the machine location with grade information on the digital plans the machine cuts perfect grade automatically, to millimeter accuracy!



Topcon Positioning Systems, Inc.
7400 National Drive • Livermore, CA 94550
www.topconpositioning.com

Specifications subject to change without notice

SPECIFICATIONS

9000A/900A

ANGLE MEASUREMENT			
Method	Absolute Reading		
Horizontal	2 sides		
Vertical	2 sides		
Accuracy	1" (0.3mgon)	3" (1mgon)	5" (1.5mgon)
Tilt Correction	Dual Axis		
Compensating Range	±6'		

DISTANCE MEASUREMENT	
Prism Mode	
1 prism	3,000m
Accuracy	
Fine 0.2mm / 1mm	±(2mm+2ppmxD*) m.s.e.
Non-Prism Mode (GPT-9000A Series only)	1.5m - 250m
NP Accuracy	
Fine 0.2mm / 1mm	±(5mm) m.s.e.
Non-Prism Long Mode (GPT-9000A Series only)	5.0m - 2,000m
NP Long Mode Accuracy	
Fine 1mm	±(10mm+10ppmxD*) m.s.e.

LPS-900	
Working Range	1000' (300m)

Not just another grade control system...



With the addition of Topcon's FC-200 with RS-1 Radio module and a composite pole, LPS-900 is your answer for resetting stakes and verifying grade. No waiting on a Surveyor.

Of course, if traditional surveying is required, the GPT-9001A and GTS-901A are the World's most advanced surveying instruments. Measure up to 16,500' (5,000m) using a prism with 1 second accuracy. The GPT-9001A provides the industry's longest prismless range, 6,500' (2000m), perfect for pile/material volume, rock/mine face, or dangerous area measurements.



LPS-900 is an easy upgrade from your existing System Five. It's also the perfect complement to your existing 3D-GPS+ system, allowing "hot" switching between GPS+ and LPS in obstructed areas where maintaining a constant satellite signal is difficult.

Topcon. It's time.



Your local Authorized Topcon dealer is: