

Leica Geosystems Paving Solutions Stringless 3D System for Mainline Slipform Pavers



The Complete 3D Solution for Stringless Mainline Slipforming

Saving you time and money, increasing safety, productivity and paving performance.

Leica TPS1200 Series total stations permanently transmit measurements to the PC mounted on the machine. The actual position and orientation of the machine is calculated and compared to the design model's grade and position. The result from this comparison is sent to Gomaco's controller, which regulates the hydraulics for precise grade and steer control.

By continuously comparing the machine to the model, paving height is regulated to an accuracy of ± 3 mm ($\pm 0.01'$), and steered to within ± 10 mm ($\pm 0.03'$).

Key benefits of the Leica Geosystems Stringless System

- Massive survey cost savings – no installation and maintenance of stringlines is required.
- Increased safety, quality of production and paving performance. Up to 20% productivity increase.
- High paving accuracy ± 3 mm ($0.01'$) in paving height and ± 10 mm ($0.03'$) in position.
- Project data produced by any CAD system can be built 1:1 directly onto your project.
- Continuous concrete paving (without stopping the machine) if multiple total stations are used.
- Gomaco G21-equipped machines can be upgraded to run with Leica Geosystems' solution. Older machines can also be equipped with G21 controllers by Gomaco for 3D compatibility.

- when it has to be **right**

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Geosystems

Leica Geosystems Paving Solutions

Complete Stringless 3D Systems



High Quality-High Main-line Paving Performance

Thanks to the fact that the machine is being guided by the Leica TPS1200 instruments, operators can concentrate on the production side of their work. Improved operational safety, higher paving quality and paving performance, resulting in lower costs and higher competitiveness.

9000/9500 Series Trimmers

With no modifications required, the Leica Geosystems System provides for a high precision paving foundation. Fine-trim subgrade or cement-bound material as well as pave, using only one 3D system and surface model. With no more stringlines, your material yields can be dramatically improved.

Offset Paving

The Leica Geosystems 3D System opens up a wide range of Offset Paving applications. Without any additional components, the system can be fitted to Offset Paving machines. With high quality and speed, curbs, trenches and median barriers can be built with the Leica Geosystems 3D System.

System Components

- Industrial touchscreen PC with USB Data Stick
- Software "LMGS-S"
- TPS1200 Series robotic total stations
- Machine radio modem TCPS27S
- Dual-axis tilt sensor(s)
- Standard survey accessories such as prisms, masts, cables, etc.



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