

Leica Geosystems Paving Solutions Stringless 3D System for Slipformers



The Complete 3D Solution for Stringless Slipform Paving

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

Leica TPS1200 Series total stations continuously track the moving machine, sending position and grade data to the PC mounted on the machine. The actual position, slope and orientation of the machine is calculated and compared to the design model's grade, slope and position. The results of this comparison is sent to the Wirtgen Control System, which regulates the hydraulics for precise grade and steer control.

By continuously (12 Hz) comparing the machine to the model, height and slope are regulated to an accuracy of ± 3 mm ($\pm 0.01'$), and positioned to within ± 10 mm ($\pm 0.03'$).

Key Benefits of the Leica 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.
- All Wirtgen SPS-equipped machines can be upgraded to run with Leica Geosystems 3D System, and earlier models can be retro-fitted with the Control System by Wirtgen for full 3D compatibility.

- when it has to be **right**

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Highest Quality Mainline 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. Where precision and smoothness of the surface is a prerequisite, Leica Geosystems' Stringless 3D system provides first-class results.

System Components

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



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