

# Leica PaveSmart 3D for Wirtgen Group Road Machinery



Asphalt, concrete or earth, shifting it or placing it. Whether you need simple laser height detection for excavators or need to control a concrete slipform paver to millimeter accuracy, Leica Geosystems can help you optimise your site productivity with a complete range of machine control solutions. Plan your own upgrade path to full 3D machine control with GPS, terrain modeling software and automatic machine control.

Dozers, graders, excavators, concrete pavers and asphalt finishers are just some of the construction machines that can be fitted with scalable, tough and reliable Leica Geosystems construction machine control systems. With a wide range of support services to choose from, Leica Geosystems helps you master your site.

**When it has to be right.**



**Total Quality Management –  
Our commitment to total  
customer satisfaction**  
Ask your local Leica Geosystems  
dealer for more information  
about our TQM program.

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# Leica PaveSmart 3D

## Your complete solution for 3D paving & milling

Leica Geosystems' unique world's-first 3D control system successfully launched over a decade ago, and is continuously refined thanks to our worldwide user community's feedback - saving you time and money, increasing site safety and optimizing your paving jobsite logistics.

Replacing stringlines, Leica total stations precisely track the machine's position and elevation. PaveSmart 3D calculates and compares to the design model's grade and position. Steer and elevation corrections are sent to the Wirtgen machine's controller, regulating the hydraulics for precise paving or milling results.

### Why choose Leica?

Leica Geosystems' track record in 3D paving and milling is unmatched - hundreds of high-profile infrastructure projects worldwide, since 1999. Airports, highways, tunnels, barrier, curb & gutter & rail track all delivered faster, more accurately, with higher quality and precision and at lower cost, thanks to Leica 3D machine control technology.

What's more, Leica Geosystems' paving application experts are available to consult on your specific project needs; we partner with you, helping transform the way you pave.

[www.leica-geosystems.com](http://www.leica-geosystems.com)



### Leica PaveSmart 3D Benefits

- Significant project cost & time savings – no installation or maintenance of stringlines, hubs or stakes required
- Optimises concrete & asphalt yields by constructing “as-designed” 3D surfaces
- Pave or mill anywhere, any time, no holdups or reliance on stringline crews
- Greatly improved jobsite logistics
- Saves valuable working space in road lane-rental schemes
- Low light and night-time operations are made simpler and safer
- Puts operators in control of their work
- High accuracy: up to  $\pm 3\text{mm}$  ( $\pm 0.01'$ ) in height,  $\pm 10\text{mm}$  ( $\pm 0.03'$ ) in position
- Delivers excellent surface smoothness
- Better operational safety and reliability result in greater quality and productivity
- Data import from any CAD system
- Supports all Wirtgen SPS, DLS, LevelPro, Vögele NivelTronic & NaviTronic Plus controllers
- Compatible with the widest range of GPS base stations



## One system does it all – recoup your investment even faster, by equipping your entire Wirtgen fleet

### Concrete Slipforming

- Practically any Wirtgen mainline or offset slipform paving application will benefit with Leica PaveSmart 3D
- Any width paver, with or without DBI



### Asphalt Paving

- Long-lasting pavements begin with precisely-paved, smooth foundations
- Full grade, steer & screed-width control saves material and preparation time



### Surface Milling & Mining

- Optimises the milled surface – no height referencing from poor existing surfaces
- Allows for optimal paving smoothness and material savings when re-paving



### Special Applications

- Tunnels, test tracks, high-speed rail and other high-precision application in any environment
- Non-standard Wirtgen machines supported

