Leica PaveSmart 3D
for GOMACO equipment

- when it has to be **right**

Leica Geosystems

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The complete 3D solution for stringless paving

Leica Geosystems' unique, world's-first 3D paving control system, was developed and launched in close cooperation with GOMACO in 1999 and has been continuously refined, based on our worldwide user community feedback to save your paving contracts time and money, increase site safety and optimise paving jobsite logistics.

Replacing stringlines completely, Leica total stations precisely track the machine's position and elevation. The Leica PaveSmart 3D software compares this to the design model's grade and position. Steer and elevation corrections are then sent to the GOMACO controller, which regulates the hydraulics for precise paving results, all the time.

GOMACO & Leica Geosystems' track record together in paving is unmatched – literally hundreds of high-profile infrastructure projects – airports, highways, high-speed rail, tunnels and even irrigation canals have been delivered faster, more accurately, with higher quality and precision and at lower cost, thanks to Leica 3D machine control technology working seamlessly with GOMACO's state-of-the-art G21, G22 and now G+ controllers.

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

Benefits of Leica PaveSmart 3D

- Practically any GOMACO paver can be upgraded to run with Leica PaveSmart 3D
- Major cost savings – no installation, maintenance or removal costs for stringlines, hubs or stakes
- Improved concrete yield due to precise grade control
- High paving accuracy: ± 3mm (±0.01') in height, ±10 mm (±0.03') in position
- Pave anywhere, any time, no holdups or reliance on stringline crews
- Excellent rideability (smoothness) for highway and airport pavements
- Greatly improved jobsite logistics
- Data can be imported from almost any CAD design system, or even designed in-the-field with our 3D model design tools.
- Operate in restrictive areas or where stringlines are problematic to install, such as urban streets, tunnels
- Puts crews in control of their work
- Safe and reliable low light and night-time paving

Mainline Slipform Pavers

Leica PaveSmart 3D interfaces seamlessly with all GOMACO mainline slipform pavers providing the highest precision and ease of use in the following applications:

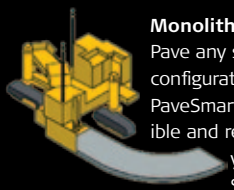
- Highway construction
- Railway construction (high-speed trackbeds)
- Airport taxiways, runways, hardstandings
- Tunnel Paving
- Canal Paving

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

Curb & Gutter & Offset Pavers
Pave any curb, monolithic or barrier profile with pinpoint accuracy. Leica PaveSmart 3D takes the owner's CAD plans directly onto the jobsite. Your operator simply sets up the position sensors, picks the required task, enters any working offsets if needed, and you're ready to go to work. Full 3D graphics allow you to see where you are, where you're going and verify there are no problems with the project design.

Curb & Gutter:
Parking lots, residential subdivisions and commercial developments.

Barrier:
Restricted access, 'live' highway possessions, urban and narrow-corridor or zero-clearance projects logistics are considerably eased when stringlines are eliminated. Crews can work safer too.



Monolithic & Sidewalk:
Pave any shape in any configuration. Leica PaveSmart 3D is as flexible and reconfigurable as your machine. Simply attach your new mold, set the new machine information into Leica PaveSmart 3D and you're ready to go to work

Special Applications
Take complex tunnel, bridge and zero-clearance highway paving projects in your stride with PaveSmart 3D. Improved operational safety, higher paving quality and paving performance, resulting in lower costs and higher competitiveness.

9500 Series Trimmers
With no machine modifications required, PaveSmart 3D delivers high precision paving foundations. Fine-trim subgrade or cement-bound material and pave, using only one 3D system and surface model. With no stringlines to introduce errors, material yields can be significantly improved.

Placer/Spreaders
Guiding placer/spreaders automatically with PaveSmart 3D increases production rate and the accuracy of concrete placing, improving smoothness (rideability) and potentially earning higher performance bonuses. Get your concrete trucks in and out faster, with no risk of damaging the stringlines and stopping production.

Canal Pavers
Remove the need to set stringlines, and simplify logistics for canal lining projects; any configuration of canal paver can be handled by PaveSmart 3D.

iCON
intelligent COnstruction

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 optimize your site productivity with a complete range of machine control solutions. Plan your own upgrade path to full 3D machine control with GPS, terrain modelling software and automatic blade control.

Dozers, graders, excavators, concrete pavers and asphalt finishers are just some of the construction machines that can be fitted with scale-able, 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.

Swiss Technology
by Leica Geosystems

TQM
ISO 9001 / ISO 14001

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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