

Topcon SmoothRide™

Modern Road Resurfacing



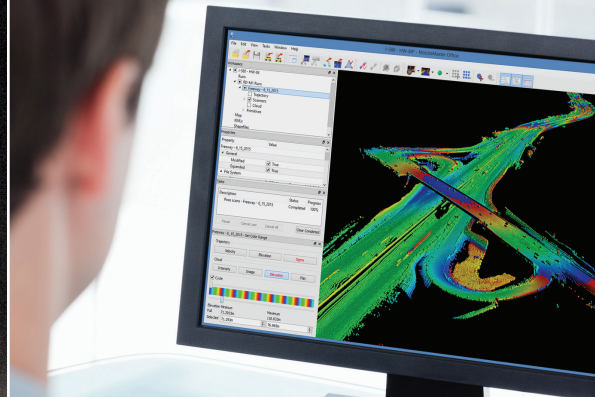
Your ultimate workflow
for Asphalt Resurfacing



Learn more at topconpositioning.com

 **TOPCON**

For Work That Matters™



Control Unit



GNSS Receivers



Height Sensors



A few cables

Revolutionary road resurfacing

Welcome to a better way to pave and mill. The Topcon SmoothRide™ workflow starts your project with precision in mind and better material management on the horizon. The need for traffic lane closures is gone. Quick 3D scanning has replaced hours of point-to-point surveying and with intuitive software, smoother and more durable results are delivered.

Time saved: Detail existing surface conditions through scanning and instantly capture millions of points while at traffic speeds.

Smoothness achieved: Variable milling and paving can easily be obtained through designs based on actual conditions. Set a compaction percentage factor when paving to ensure a smooth finish after final compaction.

Material managed: Eliminate guesswork and plan smart. Understand of existing surface details pre-construction allows for accurate material calculation.

- » Simple Process, Smart Design, Smooth Results
- » Fully automated system with GNSS or LPS and optional 2D sensors
- » Delivers accurate thickness boundaries while maintaining projected yield
- » Eliminates the need for strings, analog skis, and lasers
- » Easy surface data management and design
- » Safely collect data at speed without lane closures

Application focused

SmoothRide is the perfect tool for mainline paving or milling projects requiring long sections of road that need resurfacing. This complete workflow allows you to stay productive and be ahead of schedule – substantially increasing your bonus.

Topcon Office® Resurfacing

This user-friendly software module is purpose-built for complete road designs. Unique algorithms allow you to create anything from a running average to a sophisticated state-of-the-art design with full control of material usage where constant updates on tonnage are calculated on the fly.



Scan the
road surface



Convert the scan
to DTM



Design the
new road surface



Load the DTM
in 3D-MC



Perform with
Machine control



Collect

The innovative RD-M road scanner enables users to plan and conduct detailed road surface scanning sessions without the need for costly surveys and troublesome lane closures.



Design

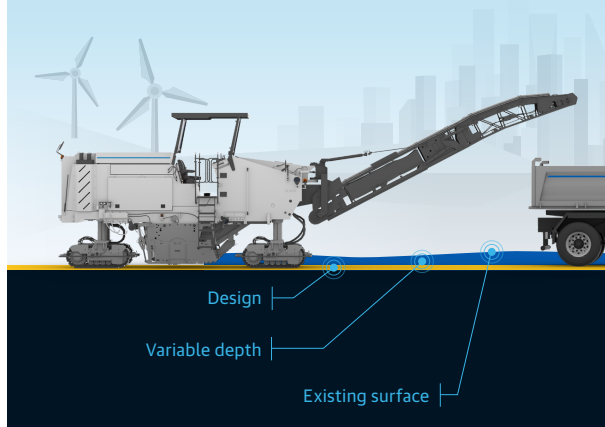
Data management and design software provide intuitive tools to create and manage large point cloud information to best represent current surface conditions and desired results.



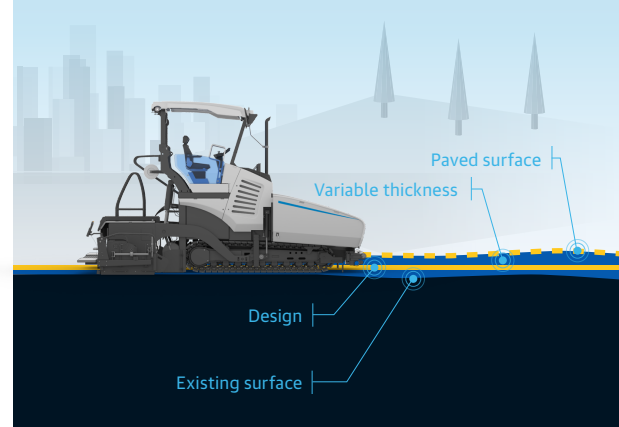
Control

At the project site, automatically control paving or milling through user-friendly software to optimize smoothness and rideability with RD-MC.

Variable Depth Milling



Variable Thickness Paving



Variable depth milling

Today's road conditions present new challenges for resurfacing projects. SmoothRide correctly identifies the existing surface, allowing for customized variable depth milling that provides a consistent and smooth finished surface.

- Identify existing asphalt surface profiles
- Eliminate guesswork and bid your job accurately
- Increase productivity and mill only what's necessary
- Mill one time and deliver a smooth surface for a perfect paving job

Variable thickness paving

Today's paving requirements put many difficult demands on contractors, many of which are outside their complete control. SmoothRide provides the tools necessary to analyze current road conditions and best options for achieving desired final results. This will soon become a standard of the paving industry.

- Quickly scan roads to generate a model of the existing surface
- Create a design to meet smoothness expectations
- Manage materials to stay within acceptable yields
- Reduces the number of lifts required to reach the finish design
- Maximize productivity while reducing manpower, equipment hours, and overhead