

Modern Road Resurfacing Workflow

MC-Max RD-MC





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Accurate and validated work, right the first time

Modular approach

Use GNSS as a standard for horizontal positioning, or LPS without satellite coverage. Switch between the two while retaining the same main hardware components.



Virtual Ski

The Virtual Ski lets you bring the SAS/Big Ski into the digital world of paving and milling.

Differential milling or paving greatly advances the road resurfacing process

RD-MC differential milling and paving is the most versatile option without the use of optical devices.

Designed and developed by the inventor of the SmoothRide workflow

SmoothRide is the ultimate method for efficient road resurfacing. Scan the existing surface with the RD-M1 road scanner (no need to interrupt traffic). Create a design or use the Virtual Ski to get the smoothest possible road surface. Enter the existing model and, if available, the design into our intuitive 3D-MC machine control software - and the machine will do its job.

Virtual Ski Insights

Today's economies are under pressure to maintain existing infrastructure, including maintenance of the existing road network. Only with innovative approaches like the Virtual Ski can planning and construction costs be minimized to resurface roads efficiently. The averaging feature in the 3D-MC software takes road resurfacing to a new level, helping customers and contractors rebuild more roads in less time at lower cost. Design is no longer required for variable-thickness paving or milling - just provide an accurate mesh of the existing surface. The Virtual Ski creates an averaged design of the existing road on the fly, in a range between 2 and 100 meters even in tight bends following the alignment.

Main Components



3D-MC software on the GX-Series displays



MC-X3 control unit including WiFi, Bluetooth, radio and cell modem



High-precision Inertial Measurement Unit (IMU)

RD-MC



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In areas without satellite coverage, LPS can be used for horizontal positioning.



Additional sensors may be used to measure existing surface height.



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