

 **TOPCON**

RD-MC
3D RESURFACING SOLUTION
FOR PAVING AND MILLING





Resurfacing Machine Control

- Variable depth milling
- Variable thickness paving
- Accounts for differential compaction
- Achieve a smooth ride in one lift
- TopNET*live* GNSS network service, no base required
- Key piece in Topcon SmoothRide™ system workflow

A hybrid of technology for smooth paving and milling

The modern RD-MC control system is uniquely configured to get the most out of a well-known sonic tracker for tight vertical repeatability and GNSS to deliver deliberate 3D positional guidance. This fusion of technology provides the most versatile solution to accurately place or remove variable amounts of asphalt according to the design – the modern way to pave or mill.

This complete system is a perfect solution for mainline paving or milling projects with long sections of road that need to be resurfaced. It allows you to stay productive and be ahead of schedule, substantially improving material management with an eye on your timeline.

Save Time, Reduce Equipment, Achieve Rideability

Traditional methods to achieve smoothness are no longer providing the quality control often desired by regulatory authorities. Our purpose-built system utilizes ruggedized hardware with intuitive software for a complete solution that is customizable for success. Long and trying workdays are now easy and proven workflows. Simply ride along and monitor as the machine automatically responds in real-time accounting for all surface changes to deliver a smooth and finished surface.



Sitelink3D™

Using Sitelink3D Enterprise service, project data is available to every project stakeholder, in real-time. Operators, field supervisors, and project managers have full visibility to all project data even while on the move. This allows you to maximize efficiency and stay informed before problems ever have a chance to arise.



GNSS Antenna



MC-R3 GNSS Receiver

GX-60 Control Box



ST-3 Sonic Tracker

ST-3 Sonic Tracker	
Target Range	14 in. to 36 in.
Dust/Water Rating	IP67 / IP69K
Operating Temp	0°C to 80°C
Weight	1.3 kg
Compatibility	Sonic Tracker II Connector/Cable GC-35 for Stringline Mode and Surface Mode Other Control Boxes Surface Mode Only
MC-R3 GNSS Receiver	
Supply Voltage	10 to 30 VDC
GNSS	GPS, GLONASS, SBAS
Channels	144
Radio	GSM/CDMA/HSPA 915SS Digital UHFII
Shock	50 g 11ms 1/2 sine wave each axis
GX-60 Control Box	
Display	6.5 inch touch screen
Backlight	Auto adjusting
OS	Windows® XP
Ports	Compact Flash / USB
Dust/Water Rating	IPX6
Supply Voltage	10 to 30 VDC
MC-G3 GNSS Antenna	
Operating Frequency Range	L1 GPS/GLONASS 1586.5 ± 25 MHz L2 GPS/GLONASS 1236 ± 20 MHz L5 GPS 1176 ± 12 MHz
Supply Voltage	3 to 18 VDC
Operating Temp	-50°C to 70°C
Dust/Water Rating	IEC 60529 IPX5



ST-3 Sonic Tracker

Delivery of real-time vertical measurements using advanced digital signal processing for ultimate 3D control.



MC-R3 GNSS Receiver

Machine interchangeable with integrated GNSS, radio, and controller to receive RTK corrections as well as drive valves of the machine.



GX-60 Control Box

Ruggedized touchscreen display hosting Topcon 3D-MC software to visualize and command paving and milling machines.



MC-G3 GNSS Antenna

Conveniently mounted on the mast of the machine for a complete capture of all available GNSS satellite signals above.



For more information:
topconpositioning.com/rd-mc

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Systèmes de guidage d'engins et systèmes de relevé

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