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
- TopNETlive 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.
ST-3 Sonic Tracker
MC-R3 GNSS Receiver
GX-60 Control Box
GNSS Antenna
ST-3 Sonic Tracker
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.

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

MC-R3 GNSS Receiver
Supply Voltage 10 to 30 VDC
GNSS GPS, GLONASS, SBAS
Channels 144
Radio GSM/CDMA/HSPA
915 SS 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