



**3D-MC<sup>MAX</sup>**  
INTEGRATED 3D DOZER SYSTEM





## 3D Dozing

- Single or dual antenna configurations
- Support for 4-way, 6-way, and pitch controlled blades
- Eliminates the need for GNSS mast
- Superior performance for any rough or fine grading job site application
- Increased blade response
- Accurate as-built data for volume and productivity reporting

A revolutionary dozing system, 3D-MC<sup>MAX</sup> delivers the highest productivity dozer solution for any rough or fine grading application. 3D-MC<sup>MAX</sup> uses our industry leading MC<sup>2</sup>+ IMU sensors on the body and blade as well as an optional third IMU on the C-frame – all to keep the blade cutting edge on grade for any application. This system was built to keep you productive on any job site – providing maximum speed, maximum control, and maximum performance.

### Slim and trim – a clear path ahead

The power of the system lies within the IMU sensors. These robust and highly precise sensors work together with ruggedized cab-mounted antennas conveniently placed in a secure location on the machine. This intelligent design gives the operator unobstructed visibility and the flexibility to doze at full throttle on any surface, under objects, or while in reverse.

### Any application, anywhere

The 3D-MC<sup>MAX</sup> system can be used for fine grading applications such as those traditionally done by motor graders. With support for 4-way, 6-way, and pitch controlled blades, any dozer operation can benefit from a 3D-MC<sup>MAX</sup> system. The MC<sup>2</sup>+ IMU sensors work together to keep the blade as close to the surface as possible, delivering a smooth and consistent pass for any slope.

Outperform the field with the 3D-MC<sup>MAX</sup> system. It takes advantage of every movement made when the machine is in motion and allows you to cut finish grade while driving in reverse at high speeds. The results – a substantial increase in your productivity.



### 3D-MC machine control software

The GX-55 control box is intuitive and modern, our machine control software seamlessly drives all components in the 3D-MC<sup>MAX</sup> system.

Visualize your every movement and have the integrated LED light bars guide you when you're on grade.



MC <sup>2+</sup> IMU	
Supply Voltage	9 to 32 VDC
Ports	RS-232/485 CAN (J1939 compatible)
Housing	Powder coated cast aluminum
Connectors	10-Pins Box Mount, Threaded
Weight	1 kg
Dust/Water Rating	IP67
GX-55 Control Box	
Supply Voltage	9 to 32 VDC
Ports	2x USB Ethernet RS-232 2x CANBus 2x Digital inputs
Display Panel	640x480 Color VGA, enhanced brightness with analog touchscreen
Operating System	Windows® CE
Operating Temp	-40°C to 70°C
Weight	1.26 kg with backpack 1 kg without backpack
MC-R3 Receiver	
Supply Voltage	10 to 30 VDC
GNSS	GPS, GLONASS, SBAS
Channels	144
Radio	GSM/CDMA/HSPA 915SS Digital UHFII
Ports	RS-485 RS-232 GMU 2x GNSS 2x Millimeter GPS External modem 2x CAN 2x Ethernet I2C for Smart Knob™ SIM Card (optional)
Shock	50 G 11 ms 1/2 sine wave each axis
Dust/Water Rating	IP66



### Rapid blade response technology

Built tough for any environment, the MC<sup>2+</sup> IMU sensors mounted on the body and blade deliver update rates to the system keeping the blade on grade at high speeds.



### Intuitive control box

The robust design of the GX-55 control box is delivered in a lightweight, compact aluminum housing – complete with integrated LED light bars, a graphical interface and fast data processor.



### Versatile motion control interface

The MC-R3 is an interchangeable receiver with integrated boards for GNSS, radio, and controller to receive RTK corrections as well as drive valves of the machine.



### Fence Antenna™ technology

Conveniently mounted on the cab of the machine, the MC-G3 antenna captures all available GNSS satellite signals while identifying and rejecting signal noise – for ultimate grade control.



For more information:  
[topconpositioning.com/3dmcmax](http://topconpositioning.com/3dmcmax)

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