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**Aptella**  
AUTOMATION +  
POSITIONING TECH

**TOPCON**

# 3D Dozer System

## 3D-MC<sup>2</sup>



Double the speed,  
double the accuracy

# Shatter the 3D Automation Production Barrier – Speed

## 3D-MC<sup>2</sup>

Traditional finish grading with a dozer took multiple passes at slower speeds. Existing 3D-GPS machine control allowed operators to double their production. 3D-MC<sup>2</sup> uses revolutionary technology to reach an unbelievable new level of performance: four times faster than a standard dozer, two times faster than any 3D dozer. One dozer doing the work of two 3D dozers; think of the money you will save.

### More efficient use of your machine

3D-MC<sup>2</sup> will drastically change the role your dozer plays on a typical job site, in some cases it may even replace the need for a motor grader. It also means more efficient use of your dozer. Not only does speed increase, but fewer passes are needed, so more work can be done in less time. That means less machine operating time translating into less fuel, less wear on a machine and most importantly, more time that can be spent working in other areas or job sites.

### Improved operator performance

3D-MC<sup>2</sup> is built on our same easy to use interface so your operators will have no problem putting it to work right away. With the advancements of 3D-MC<sup>2</sup>, less experienced operators will be able to compete with the most skilled operators. More for less, what could be better.

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**Increase speeds up to 200% over existing 3D systems**

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**Smoothness and grading accuracy comparable to motor graders**

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**Same easy-to-use interface as previous Topcon machine automation systems**

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**Unmatched productivity that you will have to see to believe**

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|---|----------------|---|--------------------------|
| 1 | GNSS antennas  | 4 | Machine control receiver |
| 2 | Radio antenna  | 5 | Hydraulic valve          |
| 3 | In-cab display | 6 | IMU sensor               |

### How it works

3D-MC<sup>2</sup> utilizes the GX-55 control box, GNSS antenna, MC-R3 receiver, a single MC<sup>2</sup> sensor and intuitive software to deliver position updates 100 times per second. The MC<sup>2</sup> sensor combines a gyro, compass and inertial sensor to measure the X, Y and Z position as well as the roll, pitch, yaw and acceleration of the dozer. 3D-MC<sup>2</sup> is uniquely configured to deliver stability and control at any moment

### The Topcon 3D-MC<sup>2</sup> Advantage

Fine grading with a dozer has been typically done in first gear. Not anymore. Now you can move more material at higher speeds and at a tighter accuracy with one machine. That's the Topcon advantage..



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#### Graphical User Interface

- Touch screen display
- Internal battery provide functionality independent of machine
- Integrated LED lightbar



#### GNSS Antenna

- G3 tracking technology
- Rugged housing designed to work on any machine
- Lightweight



#### Communications Receiver

- Network capable with optional GSM / CDMA modem
- UHF and Spread Spectrum radio options
- LED indicators for satellite tracking and controller status



#### 6-axis IMU Sensor

- Rugged housing for the construction environment
- 100 Hz position update rate
- Highly accurate position determination



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[www.topconpositioning.com/3dmc2](http://www.topconpositioning.com/3dmc2)