Trimble Earthworks

Grade Control Platform
for Motor Graders

ONE and DONE

Leave a finished grade the first time, every time.

Ask for the next generation of machine control. From the company that invented machine control.

The **Trimble® Earthworks Grade Control Platform for Motor Graders** helps operators of all levels leave a quality surface in their tracks. This latest release in the Trimble Earthworks family is more than future forward. It's fast forward. The next generation system with a familiar Android™ UI, and friendly 10-inch touch screen cuts learning curve, improves operator capabilities, and gives you a first-pass finish that's second to none.

Now available in a subscription model with flexible terms to modernize your equipment with no large upfront cost.
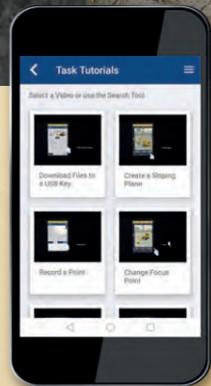
Download the **Trimble Earthworks Assistant** app to easily access consolidated Trimble Earthworks learning material and documentation, allowing for a shorter learning curve and less downtime.

The Trimble Earthworks Assistant app makes it easy to learn and troubleshoot using an Android cell phone, even from remote sites.

Available on the Google Play Store

INTUITIVE SOFTWARE, RUGGED HARDWARE

The Trimble Earthworks Software runs on the 10-inch (25.4 cm) Trimble TD520 display or the 7-inch (17.8 cm) Trimble TD510 display. Colorful graphics, natural interactions and gestures, and self-discovery features make Trimble Earthworks intuitive and easy to learn. Each operator can personalize the interface to match their workflow and a variety of configurable views make it easier to see the right perspective for maximum productivity.

To ensure everyone is operating from the latest design, transfer data files to or from the office wirelessly and automatically using Trimble WorksManager, mobile-friendly software that easily manages data and technology assets across project sites.

Android OS

Modern, colorful graphics

Rugged Display

Configurable views

Trimble WorksManager Software

DUAL-GNSS ACCURACY

Trimble, a leader in precision measurement technology, pioneered the dual GNSS solution to meet the needs of the construction industry. Dual GNSS provides real-time position and heading of the machine for guidance of the motor grader blade in 3D, enabling faster reaction times and enhanced performance.
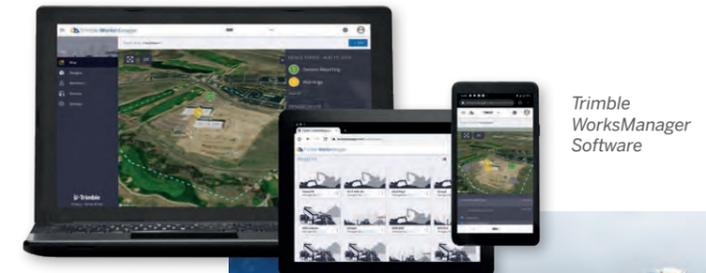
The IMU-based system offers even better GNSS performance, for more accuracy and stability. The platform supports multiple correction services, including VRS and Internet Base Station Service (IBSS). And when a correction source is temporarily unavailable, the Trimble xFill feature will fill in the gaps to maximize up-time.
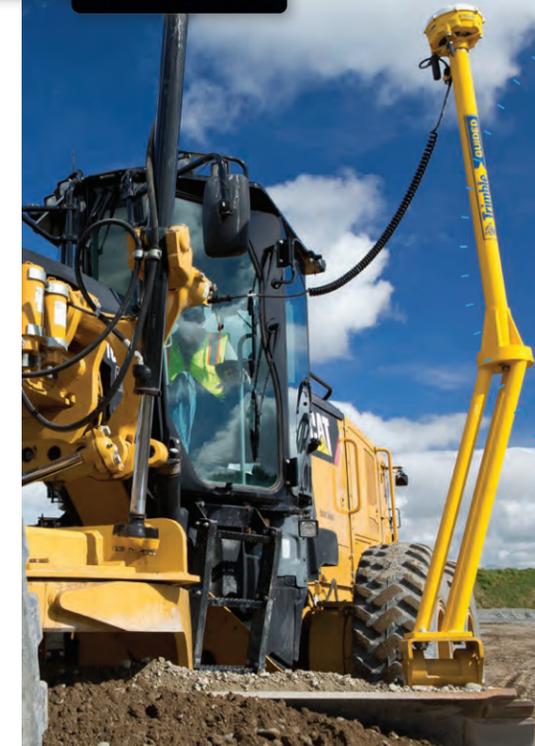
MASTLESS FLEXIBILITY

Trimble Earthworks for motor graders mastless configuration* mounts one GNSS antenna on the cab and one on the gooseneck of the machine to eliminate masts and cables traditionally located on the blade. Mastless GNSS receivers are ideal for the blade's maximum range of motion, needed for steep slope work and complex designs with tight tolerances.

The new configuration enables contractors to decrease risk of damage to the machine, keep valuable antennas safer as well as reduce the time needed to remove and reinstall them each day.

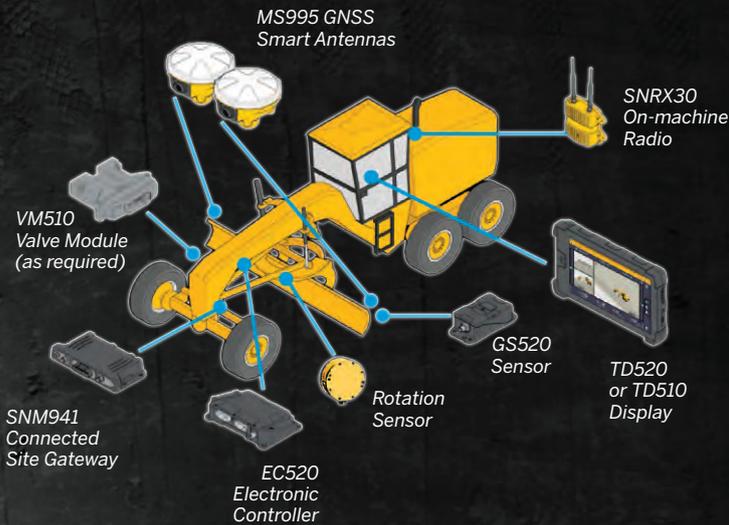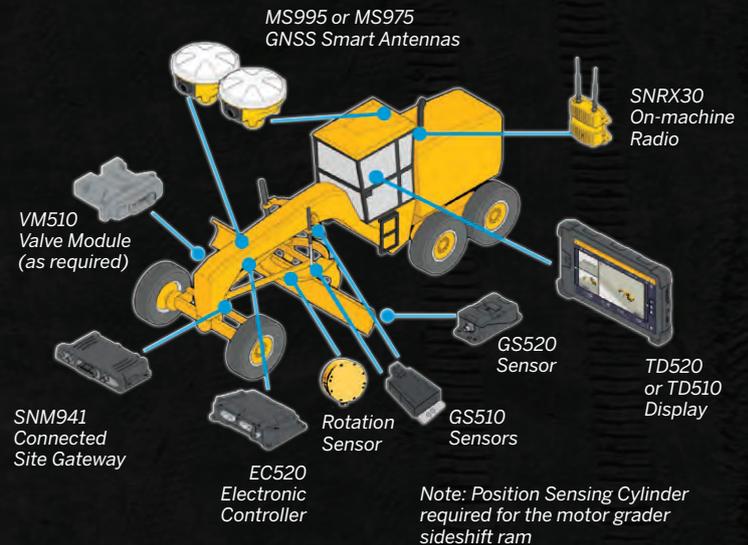**Available for select Cat® motor graders*

Trimble Earthworks:
Motor Grader 3D Configuration Options

Blade-Mounted Dual GNSS System
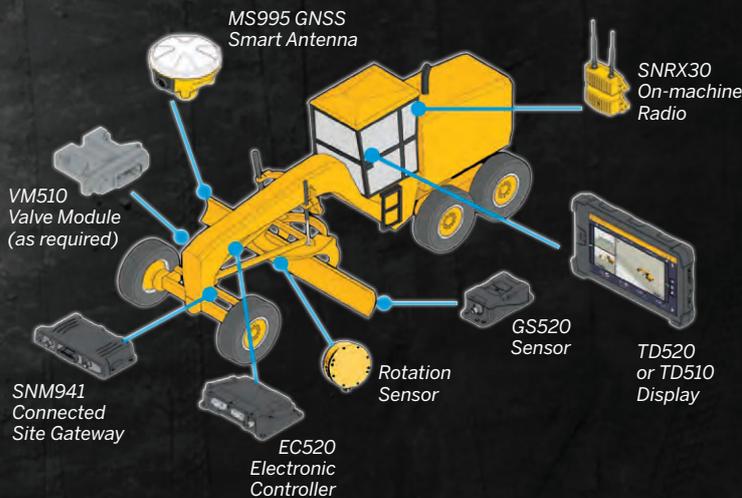

MS995 GNSS Smart Antennas

SNRX30 On-machine Radio

VM510 Valve Module (as required)

SNM941 Connected Site Gateway

EC520 Electronic Controller

Rotation Sensor

GS520 Sensor

TD520 or TD510 Display

Mastless Dual GNSS System

MS995 or MS975 GNSS Smart Antennas

SNRX30 On-machine Radio

VM510 Valve Module (as required)

SNM941 Connected Site Gateway

EC520 Electronic Controller

Rotation Sensor

GS510 Sensors

GS520 Sensor

TD520 or TD510 Display

Note: Position Sensing Cylinder required for the motor grader sideshift ram

Blade-Mounted Single GNSS System

MS995 GNSS Smart Antenna

SNRX30 On-machine Radio

VM510 Valve Module (as required)

SNM941 Connected Site Gateway

EC520 Electronic Controller

Rotation Sensor

GS520 Sensor

TD520 or TD510 Display

Universal Total Station System

MT900 Machine Target

VM510 Valve Module (as required)

SNRX30 On-machine Radio

SNM941 Connected Site Gateway

EC520 Electronic Controller

Rotation Sensor

GS520 Sensor

TD520 or TD510 Display
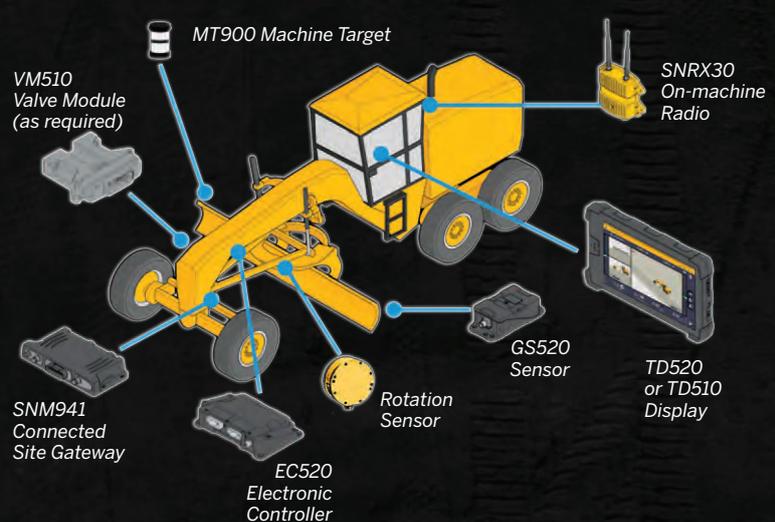
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