

A high-angle, top-down photograph of a yellow excavator equipped with a Trimble grade control system. The excavator is positioned on a dark, uneven dirt surface. Its long boom and arm extend towards the bottom left of the frame. The main body of the excavator is yellow with black accents and features several white lights. The background is a dark blue gradient with white wavy lines.

Trimble Earthworks grade control platform for excavators

Turn overtime into undertime

Get the confidence to deliver projects ahead of schedule.

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

The Trimble® Earthworks grade control platform for excavators is designed to help you do more in less time. Our cutting-edge platform features state-of-the-art software and hardware to give operators of all skill levels the ability to work faster and more productively than ever before.

Also available as a subscription with flexible terms to modernize your equipment with no large upfront cost.



Intuitive software, rugged hardware

The Trimble Earthworks software runs on the Android™ operating system with the 10-inch (25.4 cm) Trimble TD540 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 using Trimble WorksManager software.

Excavator automatics

Take advantage of 3D aftermarket grade control automatics for excavators and tilt-rotator attachments. Excavators can work semi-automatically, allowing operators to create smooth, flat or sloped surfaces more easily. Achieve grade consistently, with high accuracy and in less time by automating excavator operation with Trimble Earthworks.

Augmented reality

Operators can now view 3D models in a real-world environment at a true-life scale, in the context of existing surroundings, using a camera mounted on the outside of the machine. The model is overlaid onto existing ground on the Trimble Earthworks display, giving the operator a better understanding of the work that needs to be done. Visibility of the bucket gives operators better situational awareness of the surroundings.

Augmented reality for excavators enables users to easily understand 3D models, cut/fill information, slope data and other bench and reference points in context, without the need to interpret complex 2D plans or place stakes.

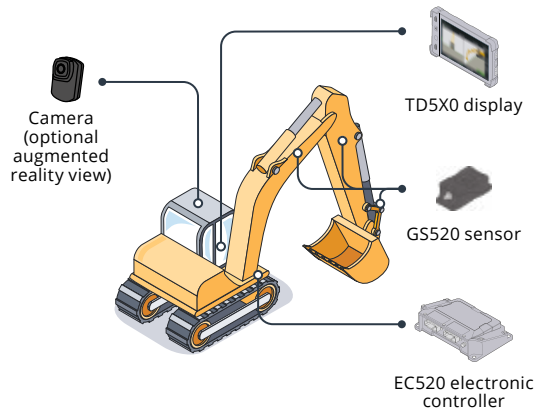
Payload Management integration

Upgrade your Trimble Earthworks system with Payload Management for increased mass haul productivity and efficiency, allowing you to track bucket-by-bucket payload to prevent under- and over-loading. Get real-time insights into progress without additional hardware.

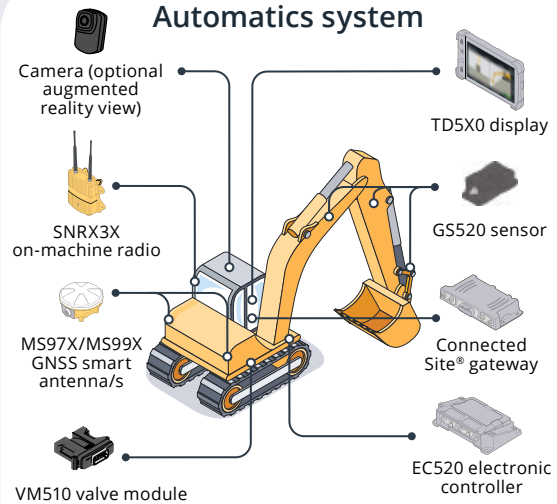


Trimble Earthworks: excavator configurations

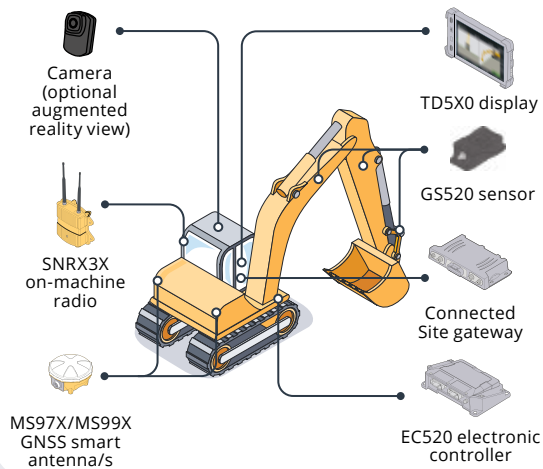
Core system



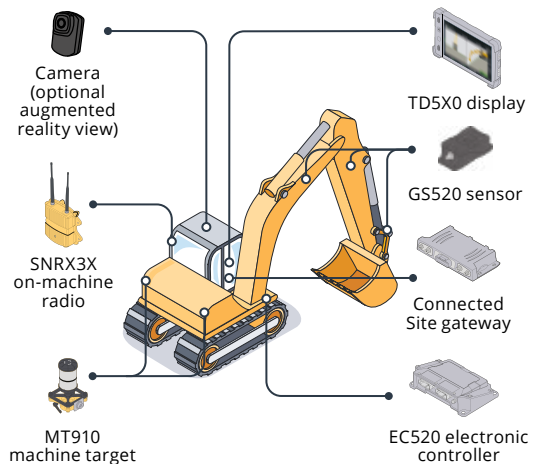
Automatics system



Dual/Single GNSS systems



Universal total station system



Upgraded AS450 Sensor-based Trimble GCS900 grade control systems are only supported in Trimble Earthworks v1.11.X and prior.

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