

# TRIMBLE EARTHWORKS FOR EXCAVATORS

INTRODUCING UNDERTIME

Trimble Earthworks for excavators was the first aftermarket semi-automatic bucket and boom control system and gives your operation many competitive advantages so you can finish on-time and on-budget.

## AUGMENTED REALITY

With the Augmented Reality feature available in Trimble Earthworks for excavators, operators can view 3D models in a real-world environment at a true-life scale, in the context of existing surroundings. Augmented Reality simplifies complex concepts by allowing users to work faster and safer using a blend of digital content and real-world environments.

## TILTROTATOR SUPPORT

Trimble Earthworks works with tilt automatics on engcon®, Rototilt®, and Steelwrist® attachments. The system controls the boom and bucket of the excavator as well as the tilt angle of the attachment, while the operator controls the stick of the excavator and rotation of the tiltrotator.

## PAYLOAD MANAGEMENT INTEGRATION

Trimble Earthworks has the option to display grade control and accurate payload data on one screen. Increase your mass haul productivity and efficiency by preventing underloading, and improving safety by avoiding overloading. Track productivity with the optional Bluetooth® printer and web-based reporting.



# VARIOUS CONFIGURATIONS

ACCORDING TO YOUR NEEDS

**2D CONFIGURATION FOR HEIGHT AND SLOPE** - Flexible starter solution for excavation, canal and trench construction, grading and profile work—the start of productivity.

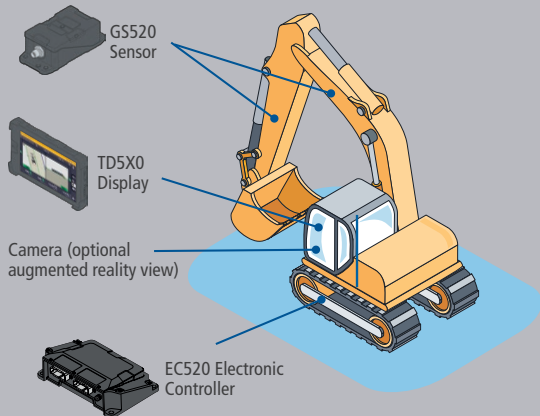
**3D SINGLE OR DUAL GNSS OR UTS CONFIGURATION** - Powerful 3D control system to measure the exact position of the bucket for more complex grading and excavation tasks.

**AUTOMATIC GUIDANCE** - Available for a broad range of machine brands and models, the automatic system controls the hydraulics of the machine and achieves high precision in flat or inclined surfaces. With the benefits of automatic functionality, increase the productivity of your machine up to 40%.

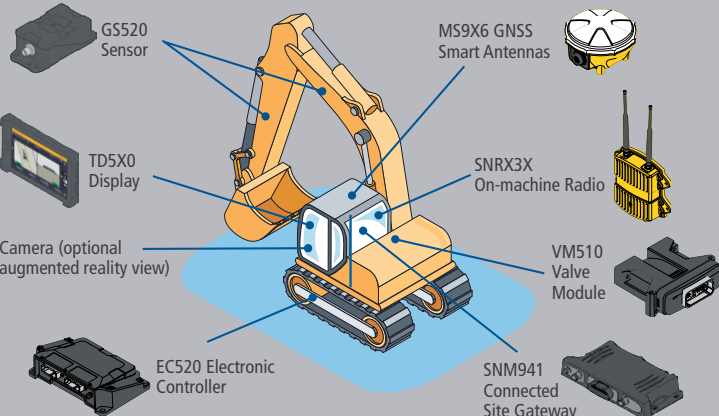
### How it works:

1. The excavator is placed in auto mode
2. The operator controls the stick
3. Trimble Earthworks controls the boom and bucket
4. Stay on grade, reduce overcut and increase production

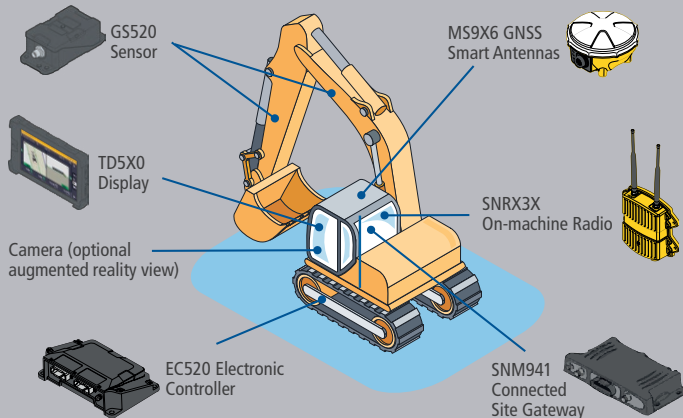
### CORE SYSTEM



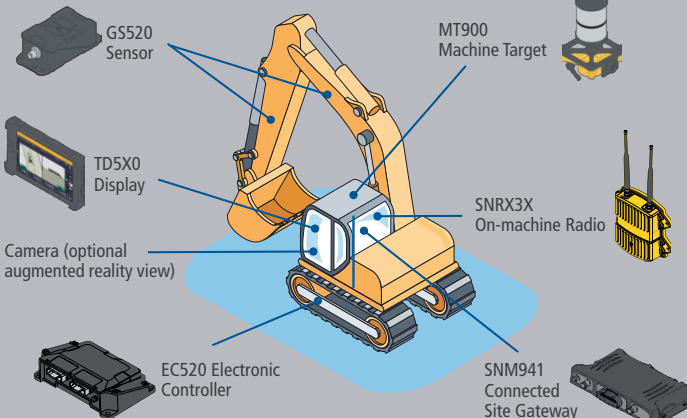
### AUTOMATICS SYSTEM



### 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