

# Trimble Compaction Control Systems

## CCS900 for Asphalt Compactors



Trimble offers the asphalt contractor the most flexible range of Compaction Control Systems in the industry. From simple pass count systems using reference station-free Satellite-Based Augmentation Systems to systems using millimeter accurate total stations, Trimble systems are rugged, easy to use, fully upgradeable and flexible to meet a wide range of application and jobsite requirements. The system is installed as an aftermarket system, retrofitted onto any asphalt compactor with open or enclosed cab.

Trimble® CCS900 Compaction Control System increases efficiency and produces a better quality mat. The CCS900 system eliminates much of the guess work from asphalt paving operations and helps achieve more consistent compaction to target design density over the entire material layer. The operator will also be able to roll a more efficient pattern and can thus increase productivity and save fuel.

### Trimble CCS900 3D Compaction Control System for Asphalt Compactor Configurations

Configuration	Applications
PASS COUNT MAPPING ONLY Sub-meter level horizontal mapping using SBAS	Asphalt compaction applications, where monitoring pass count mapping allows the contractor to run more efficiently, and where pass counts targets need to be met.
PASSCOUNT AND TEMPERATURE MAPPING Sub-meter level horizontal mapping using SBAS Temperature Sensor	Asphalt compaction applications, where monitoring pass count and temperature mapping allows the contractor to run more efficiently. Staying within a temperature window is time critical and pass counts targets need to be met.
PASSCOUNT AND TEMPERATURE MAPPING AT CM HORIZONTAL ACCURACY Location RTK with Precise Horizontal Temperature Sensor	Same applications as the previous application, however a centimeter accuracy of pass count and temperature mapping is required.
PASSCOUNT AND TEMPERATURE MAPPING AT CM HORIZONTAL ACCURACY AND ACCURATE 3D AS-BUILT MAPPING Full RTK (CM accurate) or Universal Total Station (MM accurate) Temperature Sensor	For use in applications where increased vertical accuracies are required. For example in applications where a digital as-built is required of the finish surface for quality control or assurance purposes. Or when the contractor wants to check grade right behind the paver to correct layer thickness at the paver.

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### Pass Count and Temperature Mapping System Configuration – Key System Features:

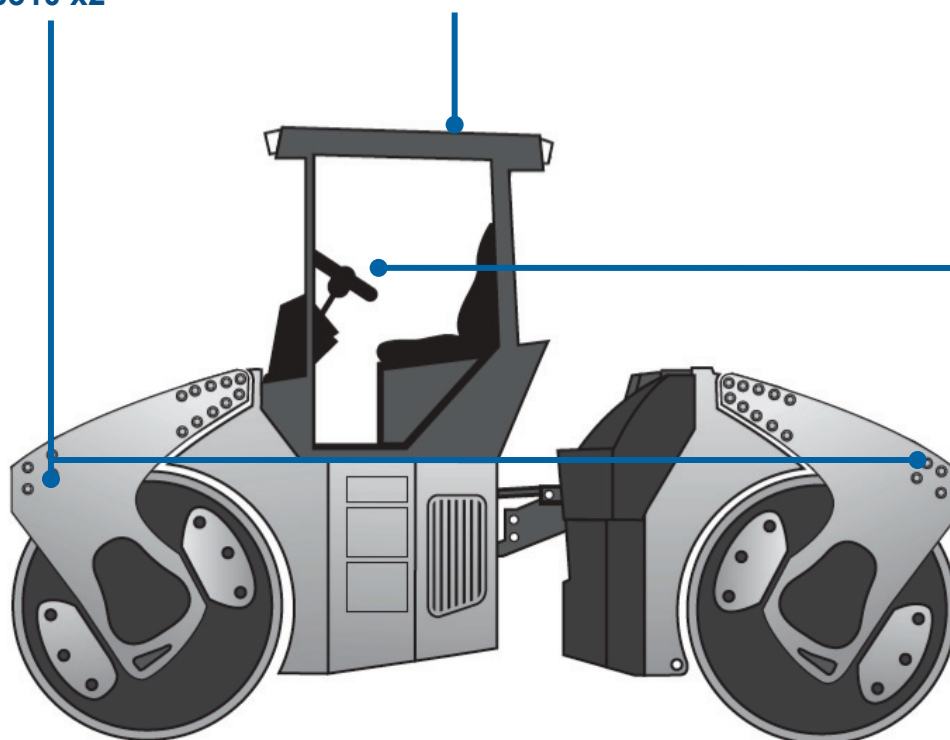
- Cost effective, simple configuration for increased rolling pattern efficiency
- Displays pass count maps, allowing operator to track where pass count target has been met
- Displays temperature maps, allowing operator to judge his time window for compaction across the surface
- Operation using base station-free Satellite-based Augmentation Systems (WAAS, EGNOS, MSAS)
- In-field compaction reports, viewed on the control box, optionally printed out in the cab with portable printer.
- Upgradeable to higher accuracy horizontal mapping and 3D as-built mapping
- Ease of operation due to the possibility to run without designs and GPS base station



IS310 x2



MS972



CB450

-or-



CB460

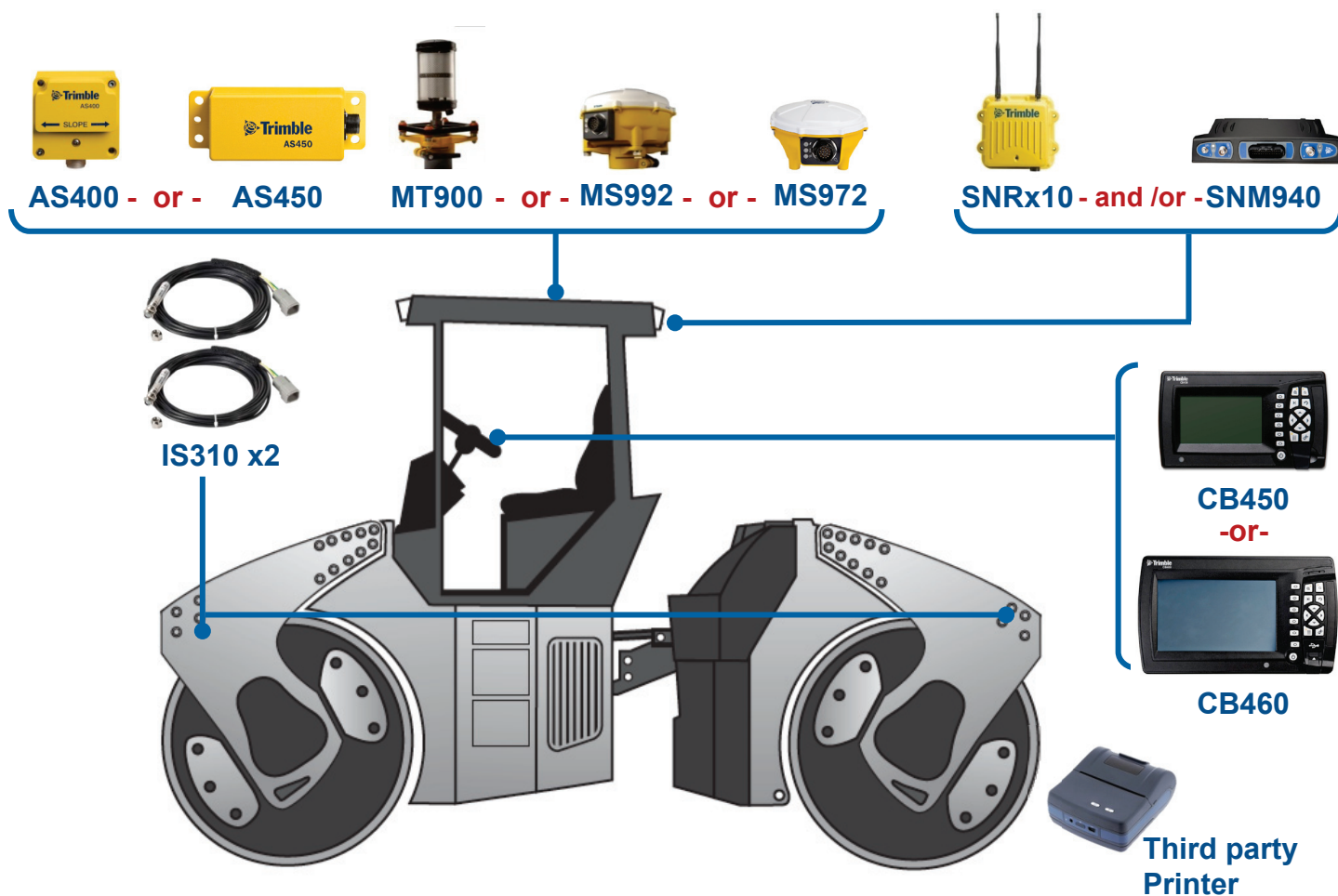
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### High Accuracy Options System Configuration – Key System Features:

- Higher accuracy mapping of pass count and temperature using centimeter accurate Location RTK and Full RTK options.
- Provides high accuracy 3D as-built logs and cut/fill maps to verify if design specifications have been met.
- Displays temperature measurements, pass counts, and cut / fill information to a 3D design
- Machine productivity and mapping data collected in real-time and recorded to the control box USB stick
- Two-way data synchronization of machine productivity and compaction data between the machine and the site office
- Productivity and as-built surface data can be processed and analyzed in the office using SiteVision® software Productivity and Compaction modules.
- Trimble CCS900 Compaction Control System offers extensive in-field reporting options, including in-cab report generation and printing





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Off Machine Infrastructure



**For CCS900  
with the MT900**



**SPSx30 Universal  
Total Station**

**For the CCS900  
with the MS992 or MS972**



**GNSS Base Station**

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 **Trimble**  
The Construction Technology Standard