

# Trimble Grade Control Systems

## GCS900 2D for Dozers



**System Spec Sheet**

Trimble offers the heavy and highway contractor the broadest range of Grade Control Systems in the industry. From 2D depth, slope, and elevation based to 3D GNSS or Total Station based, Trimble systems are rugged, easy to use, fully upgradeable, portable, and flexible to meet a wide range of application and jobsite requirements.

The Trimble® GCS900 Grade Control System with automatic blade control maximizes dozer performance. Whether grading simple pads and slopes or complex design surfaces and alignments the operator can get to grade at high speeds, without sacrificing grade control accuracy or quality of the final graded surface.

### Trimble GCS900 2D Grade Control System for Dozer Configurations

Configuration	Applications
Blade Slope Only	Blade slope control for rough grading Flat and sloping pads
Single Laser (Lift only)	Small housing pads, building sites Tennis courts Sports fields Finish grading
Single Laser and Blade Slope (Lift and tilt)	General site elevation control Road maintenance Sports fields Finish grading
Dual Laser (Lift and Tilt)	Medium/Large commercial building sites and housing pads Road construction Parking lots Material balancing Finish grading

# Trimble Grade Control Systems

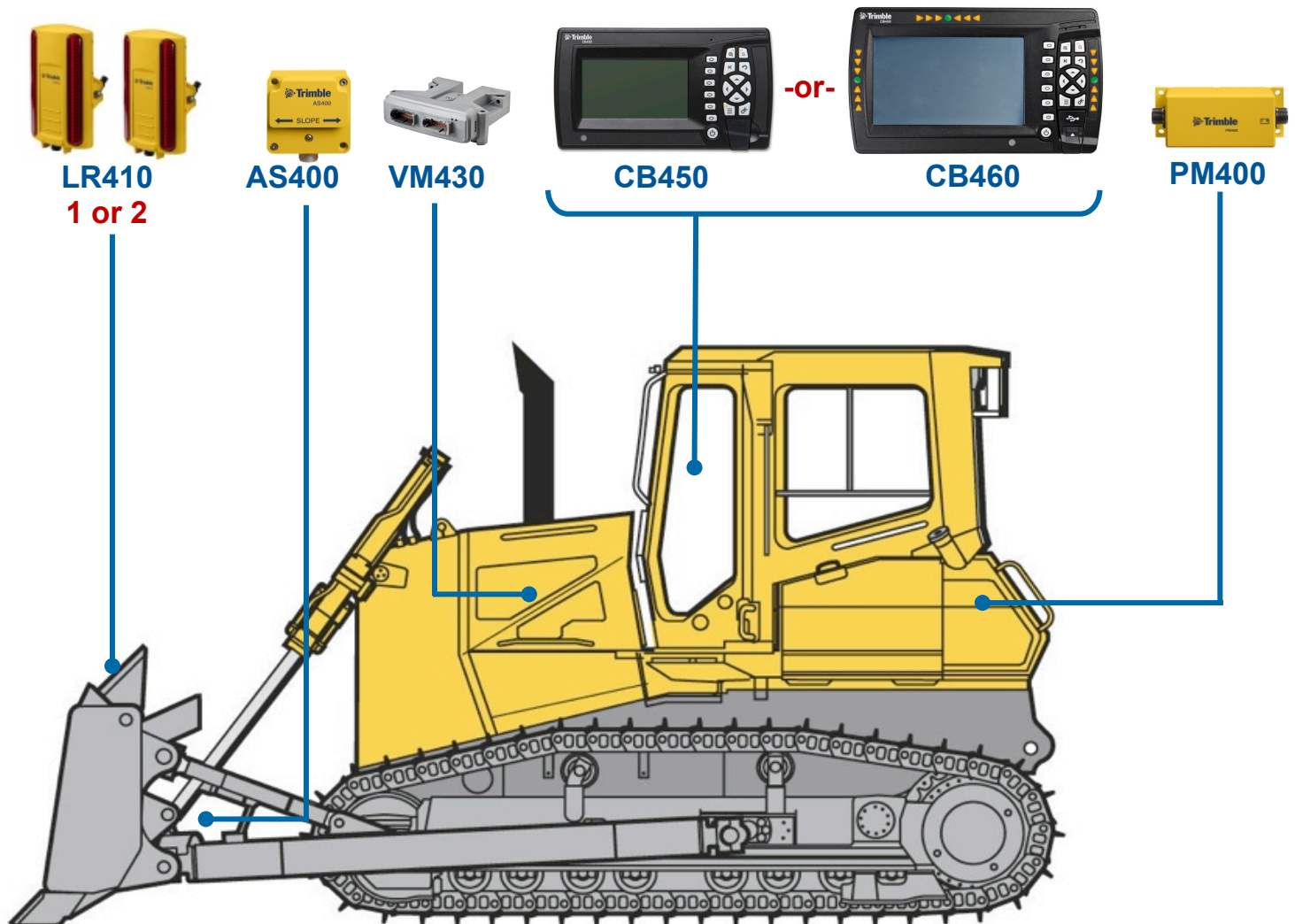
## GCS900 2D for Dozers



System Spec Sheet

### Key System Features:

- CB450 or CB460 full color graphical control box with with internal light bars – 2D or 3D capable
- Lift and tilt automatic blade control control for controlling both the elevation and slope of the blade
- Linked mode operation which ties the lift and tilt functions together for greater speed and accuracy
- On-machine components are portable and can be used on other machine types, without software/firmware upgrades
- On-machine components are modular and can be added or removed depending upon application
- 3-5 mm vertical accuracies
- Systems are easily upgradeable to 3D



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## GCS900 3D for Dozers



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## Trimble GCS900 3D Grade Control Systems for Dozers Configurations

Configuration	Applications
Single GNSS and Blade Slope (blade or cab mounted)	<ul style="list-style-type: none"> <li>Pioneering and clearing</li> <li>Mass earthworks</li> <li>Roads / highways - rough grading</li> <li>Large earthmoving projects - dams, reclamation</li> <li>Landfills / waste deposits</li> <li>Commercial / residential site prep - pads, grading for large slabs</li> <li>Land reclamation projects</li> </ul>
Dual GNSS	<ul style="list-style-type: none"> <li>Bulk earthworks</li> <li>Roads / highways / railways - rough grading</li> <li>Landfills, waste deposits, projects with steep slopes</li> <li>Commercial / residential site prep - complex design</li> <li>Golf course construction</li> <li>Embankments, retention ponds</li> </ul>
Single / Dual GNSS with Laser Augmentation	<ul style="list-style-type: none"> <li>Roads / highways / railways – fine grading</li> <li>Airport construction – runways, tarmacs</li> <li>Commercial / residential site prep - complex designs, slabs, pads</li> </ul>
Universal Total Station	<ul style="list-style-type: none"> <li>Roads / highways / railways – finished grading</li> <li>Airport construction – runways, tarmacs</li> <li>Commercial / residential site prep - complex designs</li> <li>Subdivisions - pads, local infrastructure</li> </ul>



The Construction Technology Standard

# Trimble Grade Control Systems

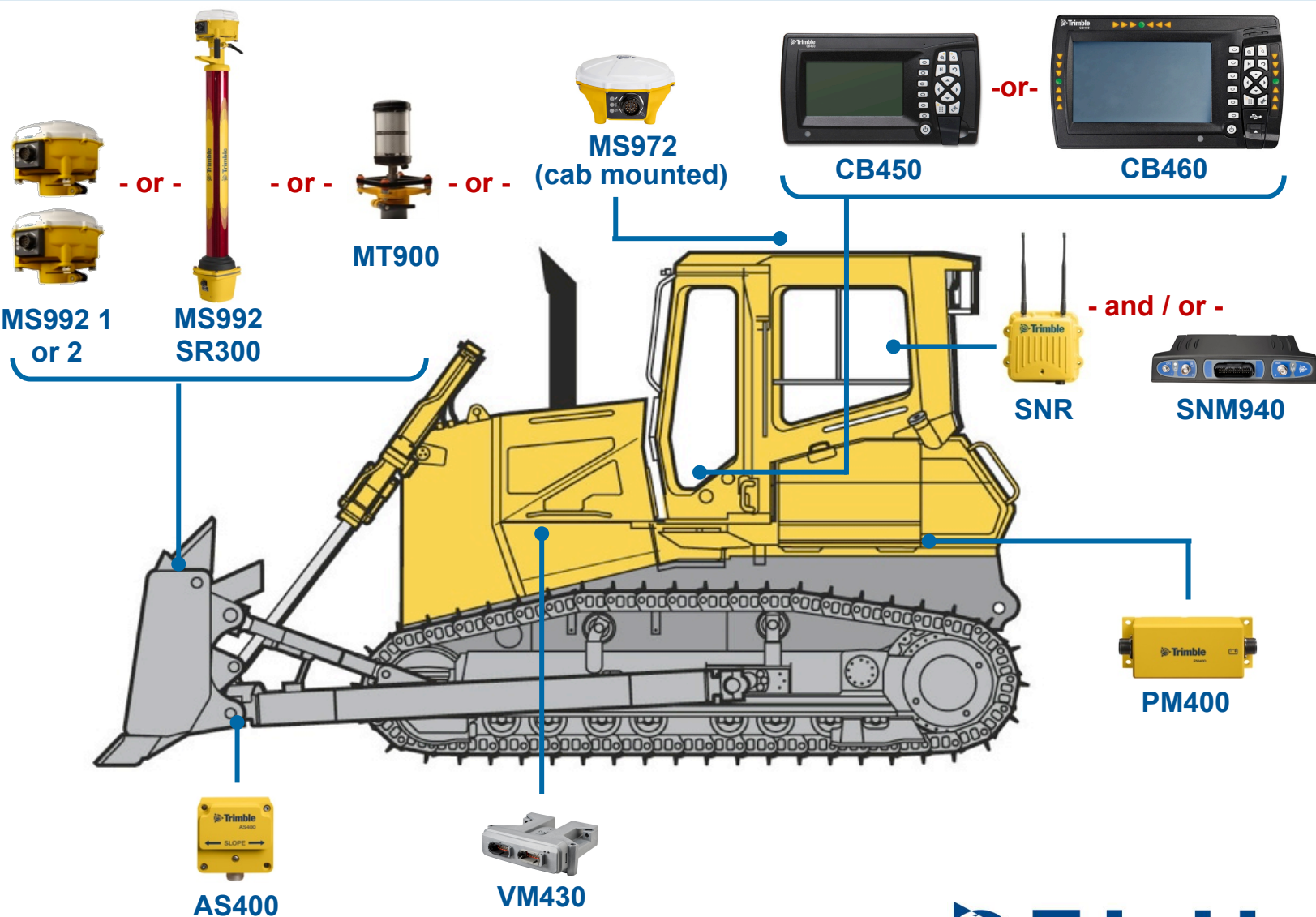
## GCS900 3D for Dozers



System Spec Sheet

### Key System Features:

- CB450 or CB460 full-color graphical control box with internal lightbars – 2D and 3D capable
- On-machine software available in 25 languages, configurable on-the-fly, with a button press
- Integrated smart GNSS antenna, cab and blade mountable, quick release mounting for daily removal
- Indicate or automatic blade control configurations
- Dual GNSS blade mounted solution provides the most versatile grading solution on the market
- On-machine components are portable between machine types, without software/firmware upgrades
- On-machine components are modular and can be added or removed depending upon applications
- Multiple system configurations for fine and finished grade applications, depending on project requirements – GNSS with Laser Augmentation and Universal Total Station based solutions
- Global solutions for two-way data transfer or synchronization of data files between machine and office



# Trimble Grade Control Systems

## GCS900 3D for Dozers



**System Spec Sheet**

**For the GCS900 2D  
AND  
For the GCS900 3D with  
Laser Augmentation**



**GL600 Grade Laser**

**For the GCS900 3D  
with GNSS  
OR  
GNSS and Laser  
Augmentation**



**GNSS Base Station**

**For the GCS900 3D  
with MT900**



**Universal Total Station**