

Trimble Grade Control Systems

GCS900 2D for Dozers



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

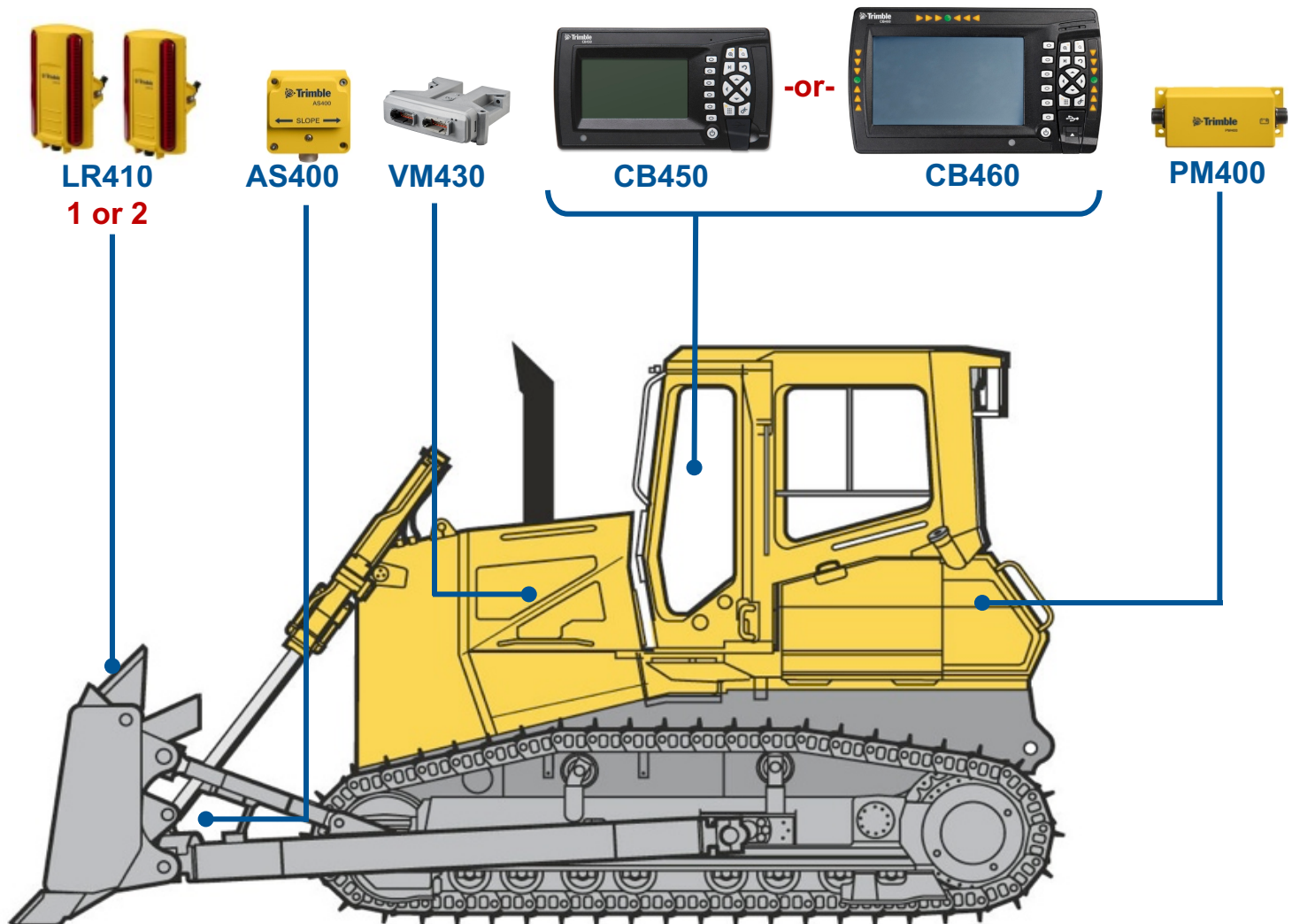
GCS900 2D for Dozers



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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Trimble GCS900 3D Grade Control Systems for Dozers Configurations

Configuration	Applications
Single GNSS and Blade Slope (blade or cab mounted)	Pioneering and clearing Mass earthworks Roads / highways - rough grading Large earthmoving projects - dams, reclamation Landfills / waste deposits Commercial / residential site prep - pads, grading for large slabs Land reclamation projects
Dual GNSS	Bulk earthworks Roads / highways / railways - rough grading Landfills, waste deposits, projects with steep slopes Commercial / residential site prep - complex design Golf course construction Embankments, retention ponds
Single / Dual GNSS with Laser Augmentation	Roads / highways / railways – fine grading Airport construction – runways, tarmacs Commercial / residential site prep - complex designs, slabs, pads
Universal Total Station	Roads / highways / railways – finished grading Airport construction – runways, tarmacs Commercial / residential site prep - complex designs Subdivisions - pads, local infrastructure

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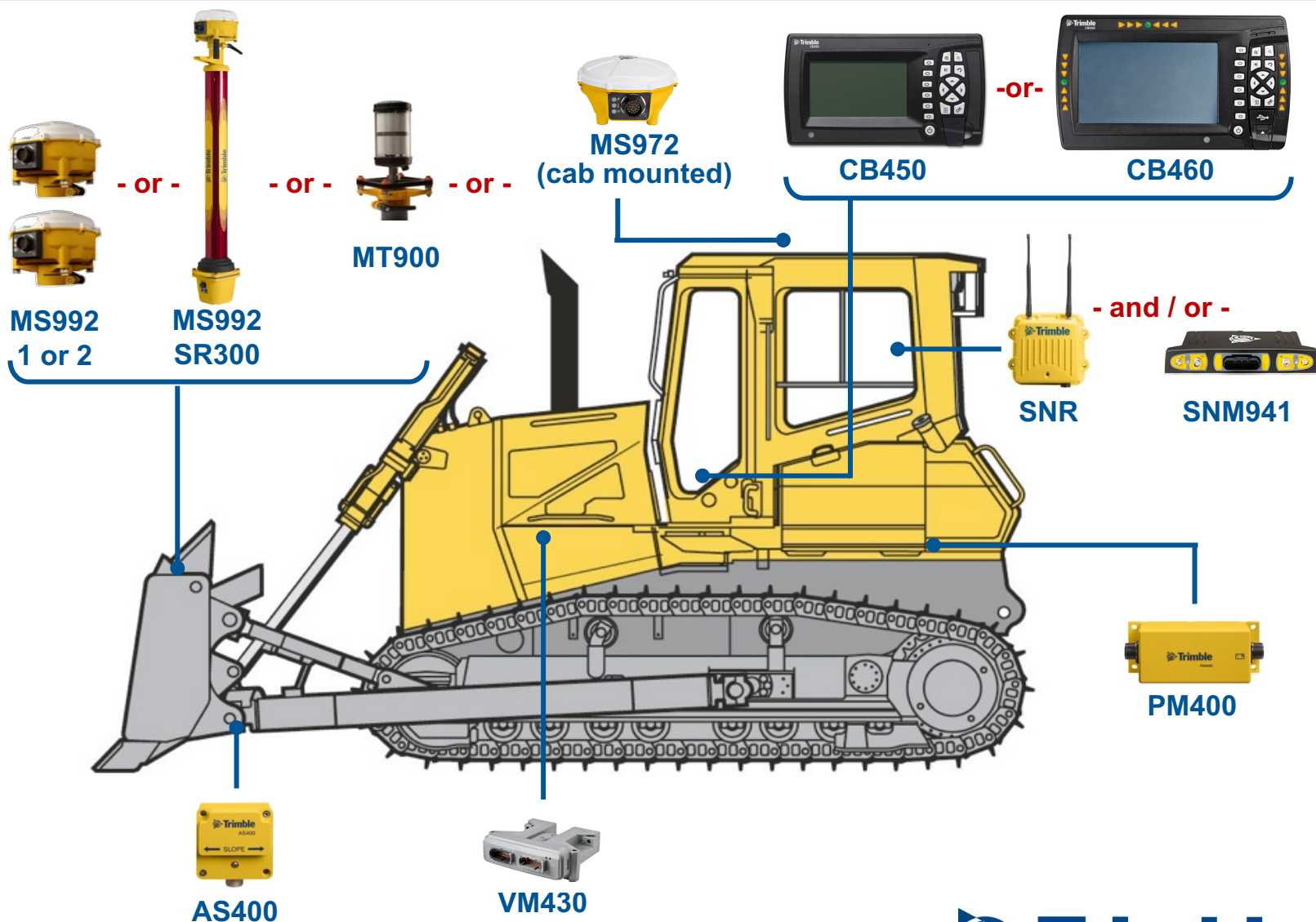
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System Spec Sheet

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



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**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