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

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blade Slope Only</td>
<td>Blade slope control for rough grading</td>
</tr>
<tr>
<td></td>
<td>Flat and sloping pads</td>
</tr>
<tr>
<td>Single Laser (Lift only)</td>
<td>Small housing pads, building sites</td>
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<tr>
<td></td>
<td>Tennis courts</td>
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<tr>
<td></td>
<td>Sports fields</td>
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<tr>
<td></td>
<td>Finish grading</td>
</tr>
<tr>
<td>Single Laser and Blade Slope</td>
<td>General site elevation control</td>
</tr>
<tr>
<td>(Lift and tilt)</td>
<td>Road maintenance</td>
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<tr>
<td></td>
<td>Sports fields</td>
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<tr>
<td></td>
<td>Finish grading</td>
</tr>
<tr>
<td>Dual Laser (Lift and Tilt)</td>
<td>Medium/Large commercial building sites and housing pads</td>
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<tr>
<td></td>
<td>Road construction</td>
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<tr>
<td></td>
<td>Parking lots</td>
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<tr>
<td></td>
<td>Material balancing</td>
</tr>
<tr>
<td></td>
<td>Finish grading</td>
</tr>
</tbody>
</table>
Trimble Grade Control Systems
GCS900 2D for Dozers

Key System Features:
- CB450 or CB460 full color graphical control box with internal light bars – 2D or 3D capable
- Lift and tilt automatic blade 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
Trimble Grade Control Systems
GCS900 3D for Dozers

Trimble offers the heavy and highway contractor the broadest range of Grade Control Systems in the industry. From 2D laser to 3D GNSS or Total Station based, Trimble systems are rugged, easy to use, fully upgradeable and 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.

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Applications</th>
</tr>
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</table>
| 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 plus GradeMax Plus upgrade                | 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 |
Trimble Grade Control Systems
GCS900 3D for Dozers

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

<table>
<thead>
<tr>
<th>For the GCS900 2D AND For the GCS900 3D with Laser Augmentation</th>
<th>For the GCS900 3D with GNSS OR GNSS and Laser Augmentation</th>
<th>For the GCS900 3D with MT900</th>
</tr>
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<tbody>
<tr>
<td>GL722 Grade Laser</td>
<td>GNSS Base Station</td>
<td>Universal Total Station</td>
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