CONTROLMASTER®

SMART AUTOMATION & CONTROL TECHNOLOGY **BY RCT**

THE **ADVANTAGES** OF G-DASH

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G-DASH EMPOWERS OPERATORS WITH REAL-TIME INFORMATION

The ControlMaster® Guidance Automation system can be installed onto any mobile machine, regardless of make or model. It delivers mine sites with continuous operations by significantly reducing machine damage and increasing general tramming speed – improving productivity and safety.

The Guidance Dash (G-Dash) feature enhances the Guidance operation and experience. Clearly displayed on a separate designated screen, G-Dash empowers operators with real-time information to make smarter decisions. This feature provides a graphical representation integrated into the user interface (UI) and displays important information such as speeds, angles, communication signal strength and machine warnings.

G-Dash is part of RCT's ControlMaster® Guidance features and is suited to all Analogue and Digital communication systems.

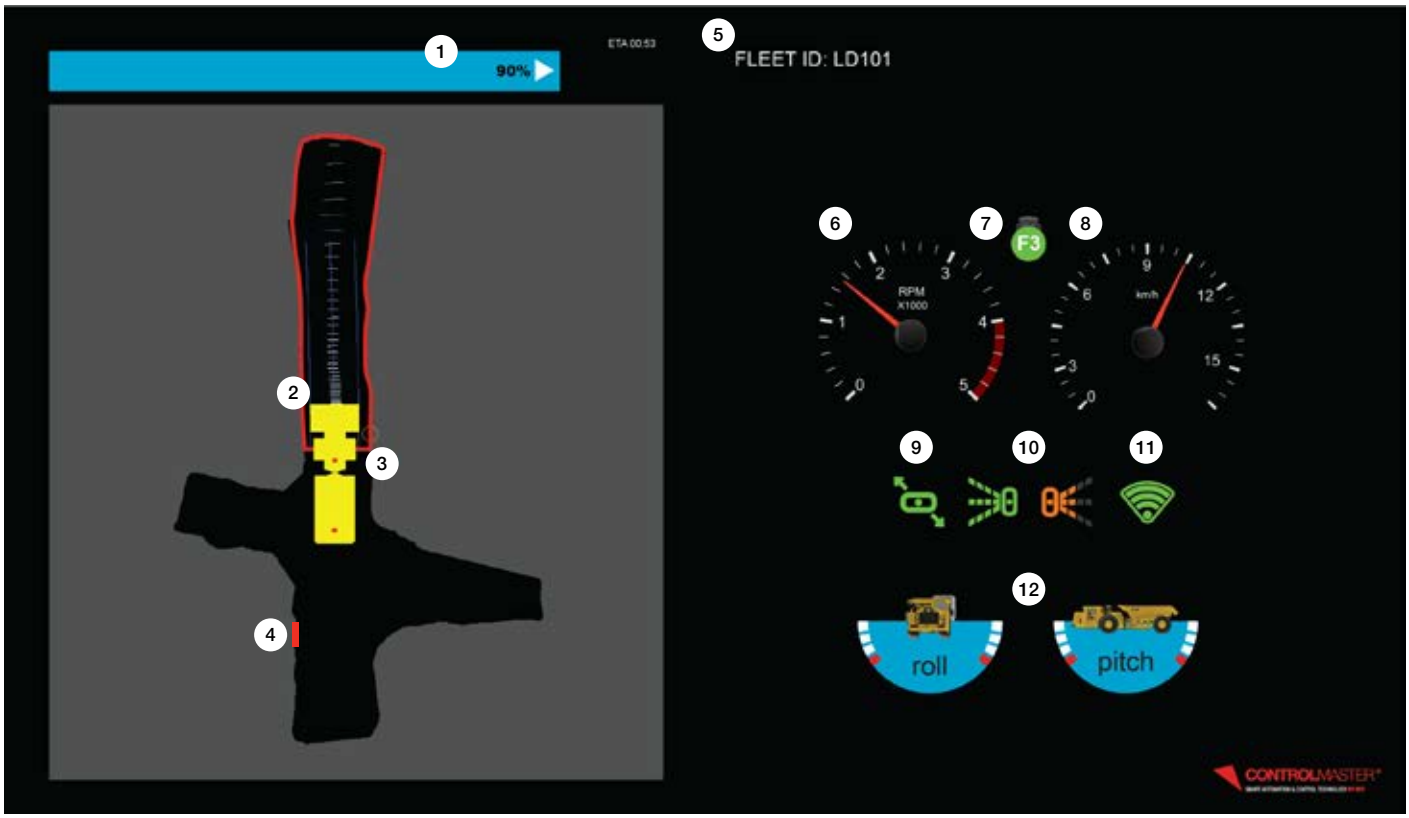
To gain the benefits of G-Dash and other features, please contact RCT.

Without G-Dash

The original visual feature only allowed operators to view the direction the vehicle is travelling and positioned. The G-Dash feature offers dynamic assistance for better operator productivity.

without G-Dash feature

G-DASH FEATURES



1. **PATH TO DESTINATION:**
   Establish an estimated time to arrival at their destination, ensuring alternate tasks can be completed in a timely fashion. Used for operations that have implemented Multiple Machine Control (MMC) to monitor the progress of the machine when in automated tram mode (P2P).

2. **MACHINE ARTICULATION ANGLE:**
   Articulation angle is a key indicator to help position the loader for digging and achieving a full bucket. It can help prevent the machine from getting stuck or helps remove it should this occur.

3. **DISTANCE TO WALLS:**
   Will show the distance to the walls, thus showing the position of the loader within the drive. This helps when the wall hug feature is enabled and will show when the machine is travelling closer to one wall compared to the other.

4. **WAYPOINT LOCATION:**
   Will show (if used) waypoints located within the mine's automated work area. These waypoints are specifically used for systems that have adopted P2P.

5. **FLEET ID:**
   Will display the name of the machine as configured.

6. **MACHINE TACHOMETER**:
   Machine RPM will be displayed for all areas of the loader's cycle. This information is vital when the loader is in the digging stage to ensure there is enough RPM for effective digging.

7. **MACHINE GEAR & DIRECTION:**
   The on-board system will determine the gear selection based on the speed and RPM of the machine.
   The gear indicator will show the gear selected at the time of operation and direction e.g.
   F3 = Forward 3rd gear
   N = Neutral
   R1 = Reverse 1st gear

8. **MACHINE SPEED:**
   The machine will travel at the optimum speed for the work area it is operating. The on-board system will determine the speed the machine travels. The G-Dash will display this speed and from this information data can be generated to show average speed for a period.

9. **GUIDANCE ENABLED:**
   Visual indication to show when machine is operating on Guidance or Teleremote.
   Black symbol = Guidance is disabled
   Green symbol = Guidance is enabled

10. **LASER DEGRADATION:**
    Received Signal Strength Indicator (RSSI) to indicate when the lasers (front and rear) require cleaning; which increases Guidance performance.

11. **COMMUNICATIONS SIGNAL STRENGTH:**
    View signal strength to assist in easily identifying any communication problems.

    - weak signal
    - low signal
    - medium signal
    - strong signal
    - peak signal

12. **PITCH AND ROLL:**
    Assists with a visual indication whilst machine is tramming, positioning for dig and dump and in the action of digging and dumping. The system has an orientation sensor fitted.

FULL BUCKET FEEDBACK (Future feature):
Increases productivity with information to ensure a full bucket is achieved every time.

DRIVE CONDITION (Future feature):
See road conditions allowing operators to determine what speeds to travel in certain sections of the drive.

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