1.7 | Terminology & Definitions

Armed

Automatic control is enabled and ready to assume implement control when engagement conditions are met.

Benchmark

A known reference position or elevation used to align or verify machine position relative to the active project or terrain surface.

Blade Shift

A temporary adjustment applied to blade height or cross-slope relative to the active design surface without modifying the underlying project data.

Control Mode

The active automatic control strategy used to determine how the implement responds relative to the target surface or terrain.

Current Height

The measured elevation of the controlled point at the machine’s current position.

Design Height

The elevation defined by the active project surface or plane at the machine’s current position.

Engaged

Automatic implement control is actively controlling hydraulic output to achieve the target surface or control objective.

GNSS

Global Navigation Satellite System data used to determine machine position, elevation, and terrain location.

Look Ahead

A predictive control function that anticipates upcoming terrain changes and adjusts implement response to improve surface accuracy and machine stability.

Marker

A user-defined reference point stored within a project for operational, surveying, or alignment purposes.

Original Height

The measured terrain elevation recorded before material movement or grading operations occur.

Plane

A mathematically defined flat grading surface generated using slope, elevation, and orientation parameters.

Position Quality

The estimated reliability of GNSS and sensor data used for terrain positioning and automatic control functions.

Project

The collection of surfaces, planes, linework, markers, terrain data, and operational settings associated with a worksite or job.

Surface

A terrain model or design representation used for guidance, visualisation, and automatic implement control.

Target Height

The elevation the system is attempting to achieve at the controlled point relative to the active surface or control mode.

Terrain Alignment

The process of aligning machine position and elevation relative to known terrain references, benchmarks, or project coordinates.

Zero

A positional or elevation offset applied to align the machine with known terrain or project reference data.