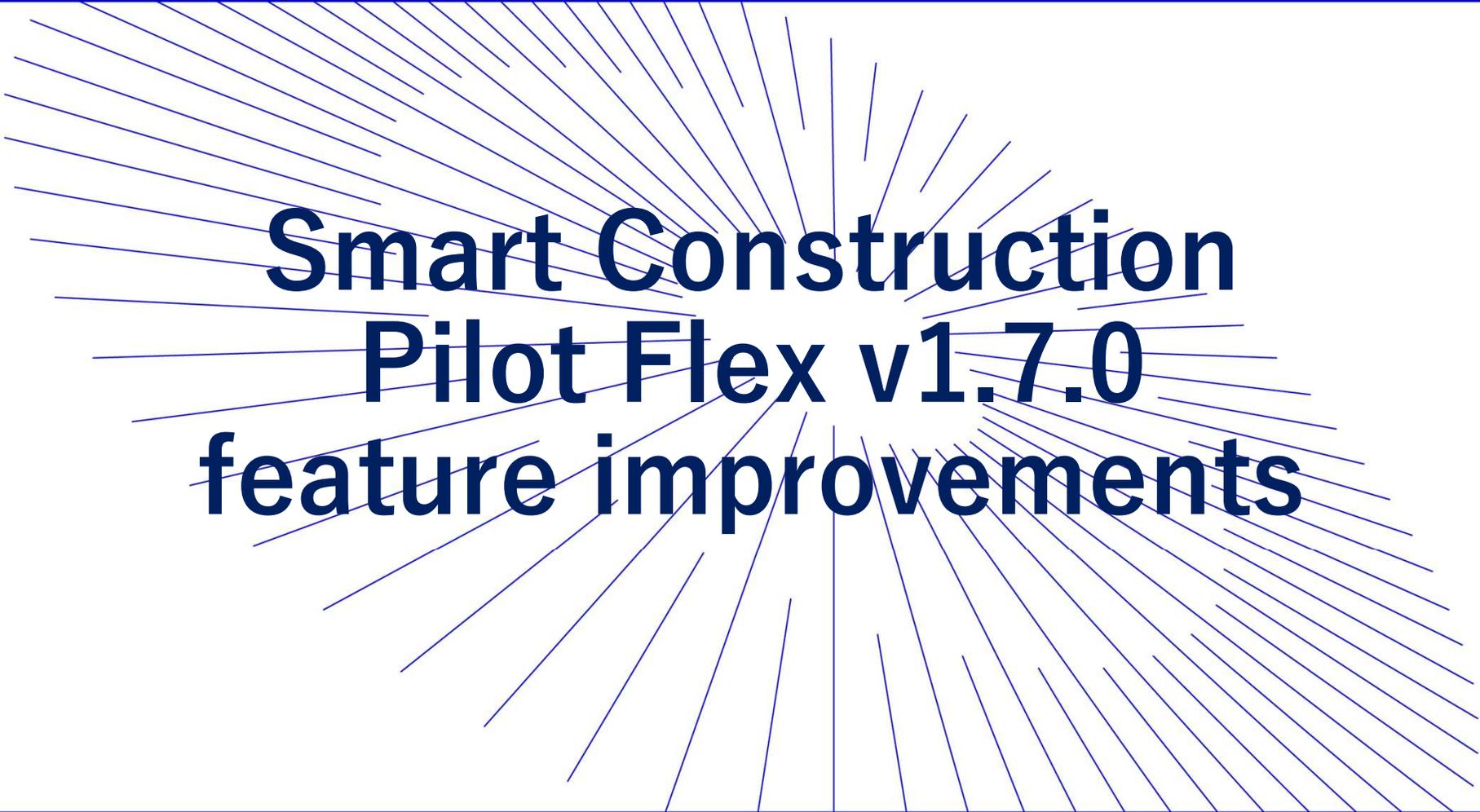


---

A large sunburst graphic composed of numerous thin blue lines radiating from a central point, positioned behind the main text.

# **Smart Construction Pilot Flex v1.7.0 feature improvements**

## Changes and Added Features

### Main Items

- 1.Added function for individual vehicle IMU calibration
- 2.Changed layout of the positioning screen
- 3.Partially redesigned the vehicle calibration screen
- 4.Display of left/right vehicle elevation and design surface difference on the front guidance screen
- 5.Display of extended vehicle width red line (top view)
- 6.Added vehicle model (tractor)
- 7.Display of vehicle pitch and roll angles
- 8.Transparency settings for the vehicle model
- 9.Changed the setting location for Ntrip V1/V2

### Others

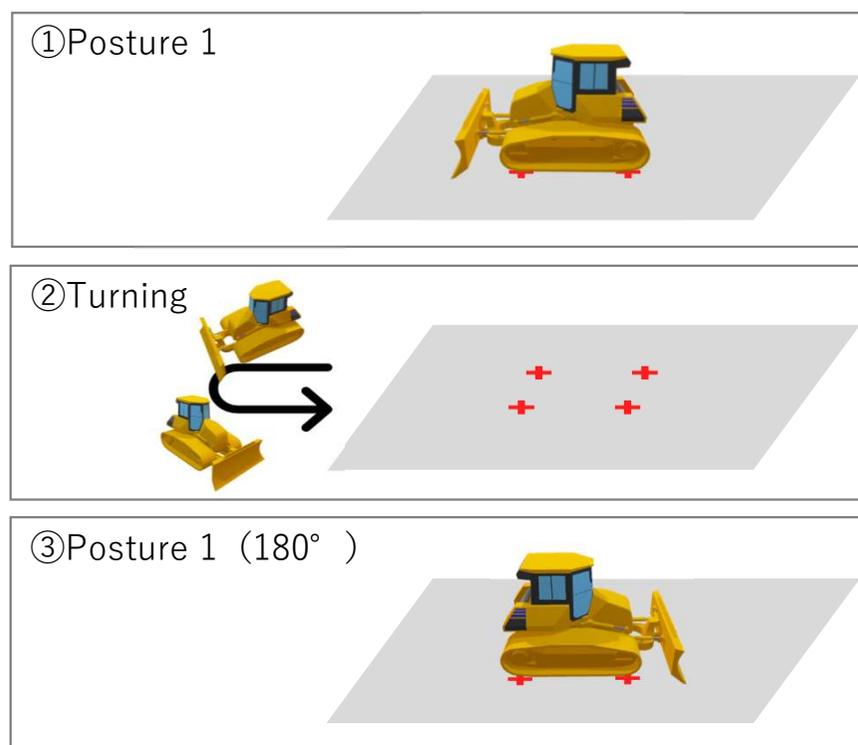
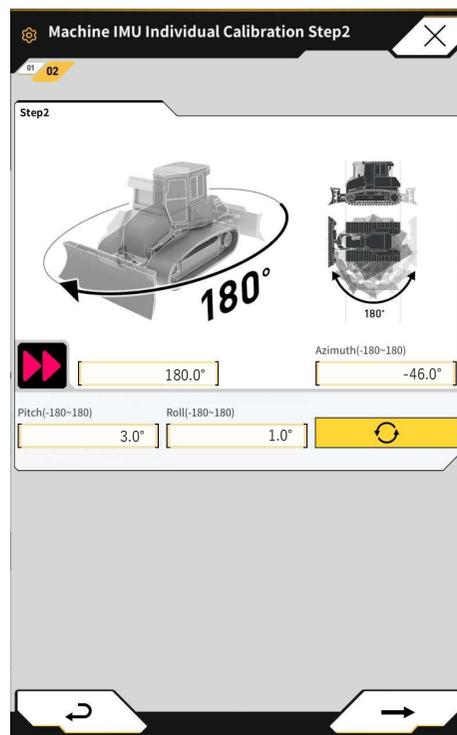
- Other bug fixes and specification changes

# 1. Added function for individual vehicle IMU calibration

A function for individual vehicle calibration has been added, enabling cancellation of IMU sensor installation errors in the pitch and roll directions of the vehicle.

## Note

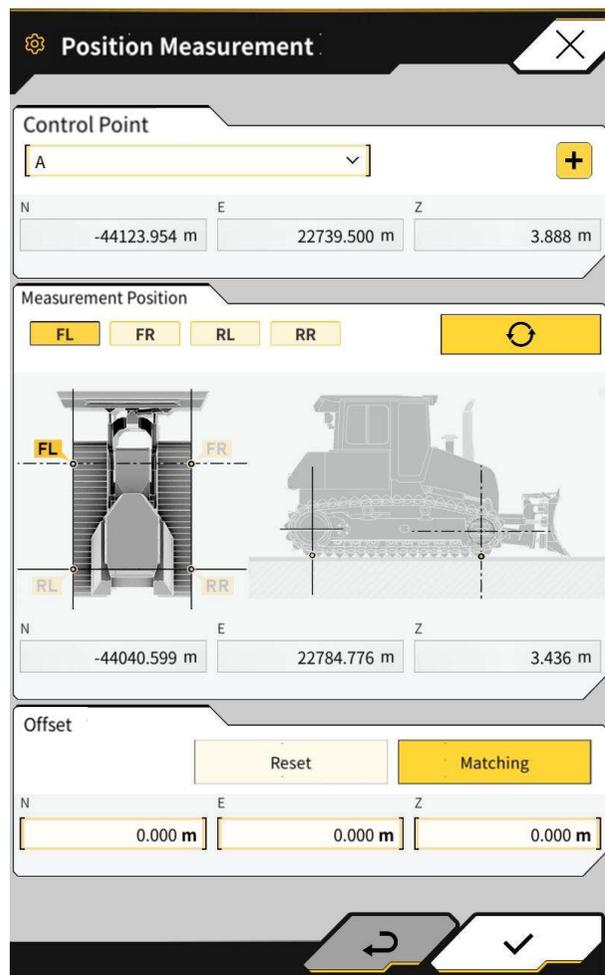
When performing calibration, work must be done on a stable surface such as a concrete-paved area or solid ground where the footing remains undisturbed even when the vehicle turns.



## 2. Changed layout of the positioning screen

In the positioning screen, in addition to displaying the current position coordinates, it is now possible to display the coordinate differences from control points.

Old



**Position Measurement**

Control Point

A

N: -44123.954 m    E: 22739.500 m    Z: 3.888 m

Measurement Position

FL FR RL RR

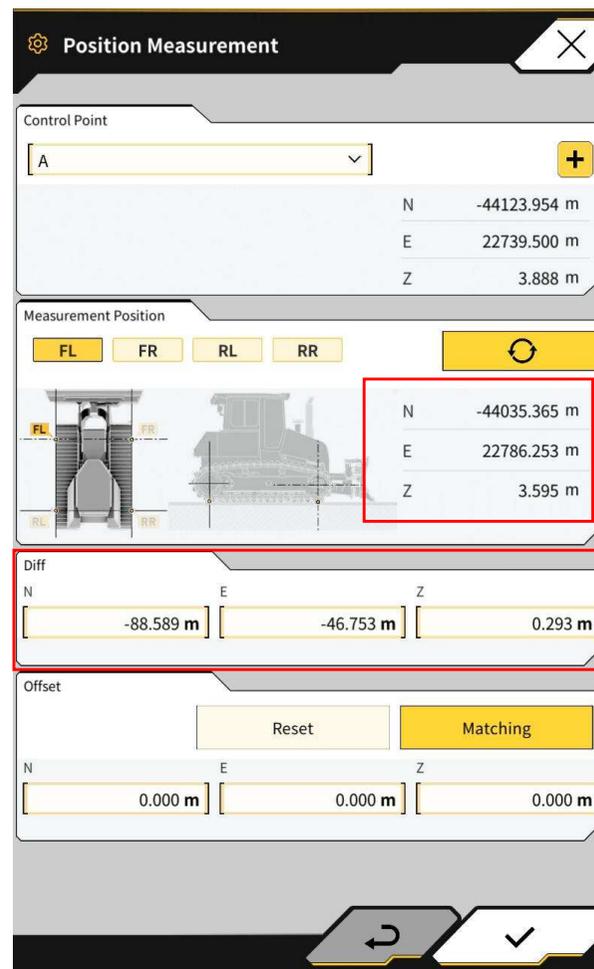
N: -44040.599 m    E: 22784.776 m    Z: 3.436 m

Offset

Reset    Matching

N: 0.000 m    E: 0.000 m    Z: 0.000 m

New



**Position Measurement**

Control Point

A

N: -44123.954 m    E: 22739.500 m    Z: 3.888 m

Measurement Position

FL FR RL RR

N: -44035.365 m    E: 22786.253 m    Z: 3.595 m

Diff

N: -88.589 m    E: -46.753 m    Z: 0.293 m

Offset

Reset    Matching

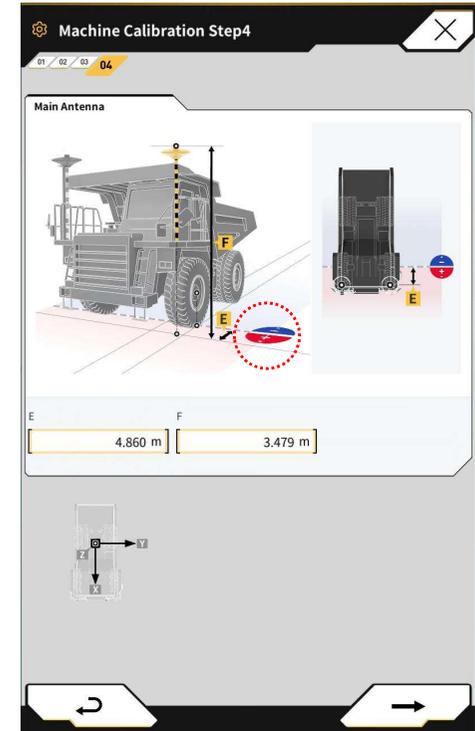
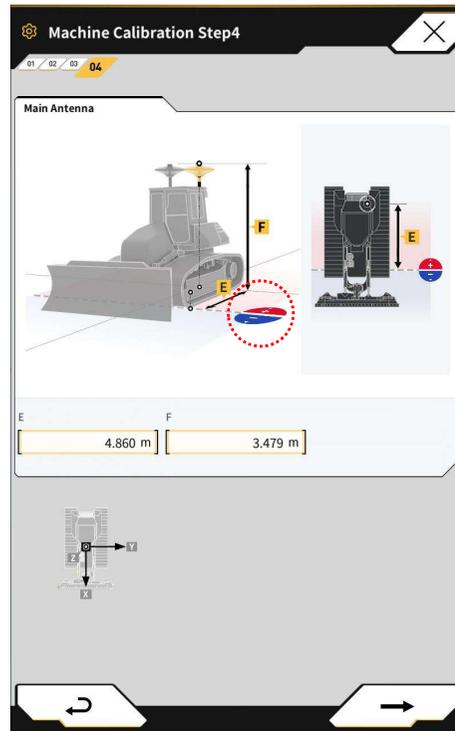
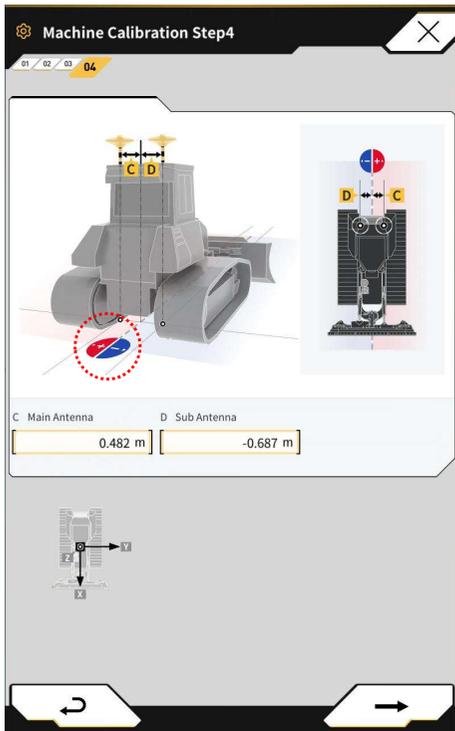
N: 0.000 m    E: 0.000 m    Z: 0.000 m

### 3. Partially redesigned the vehicle calibration screen

In the vehicle calibration's tape measure measurement, part of the design has been changed to clearly indicate positive and negative (+/-) input values.

Bulldozer

Rigid Dump

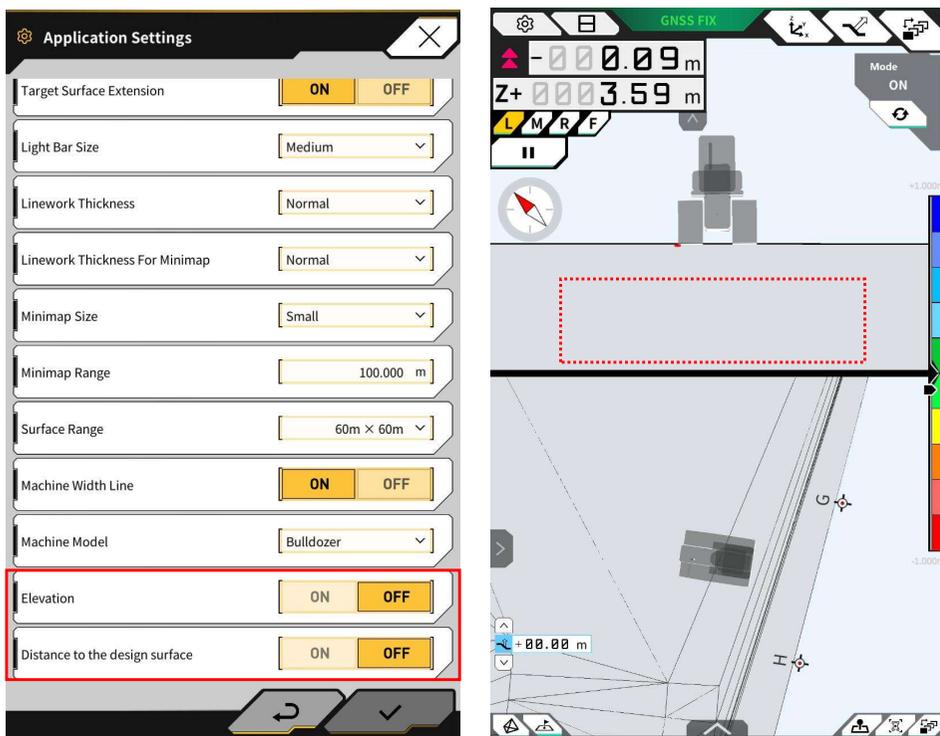




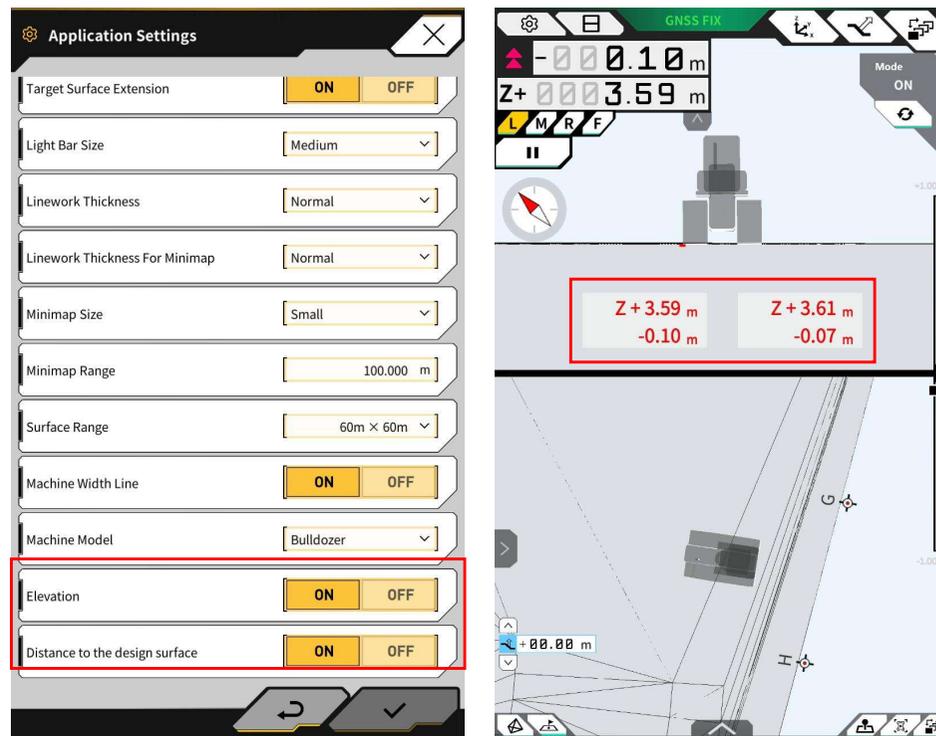
# EARTHBRAIN 4 . Display of left/right vehicle elevation and design surface difference on the front guidance screen

From the application settings, it is now possible to display the left and right elevations of the vehicle width and their differences from the design surface on the front guidance display.

hidden

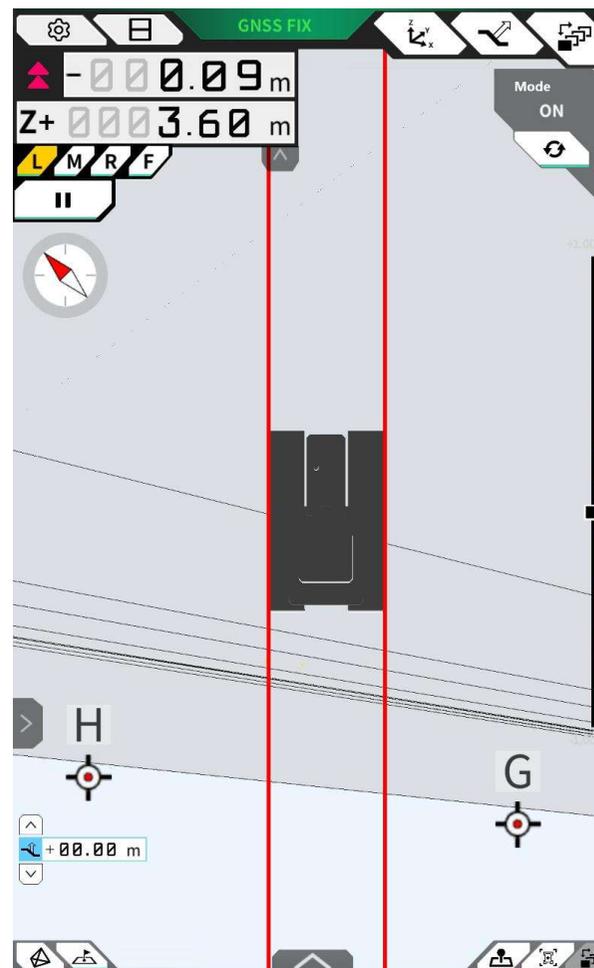
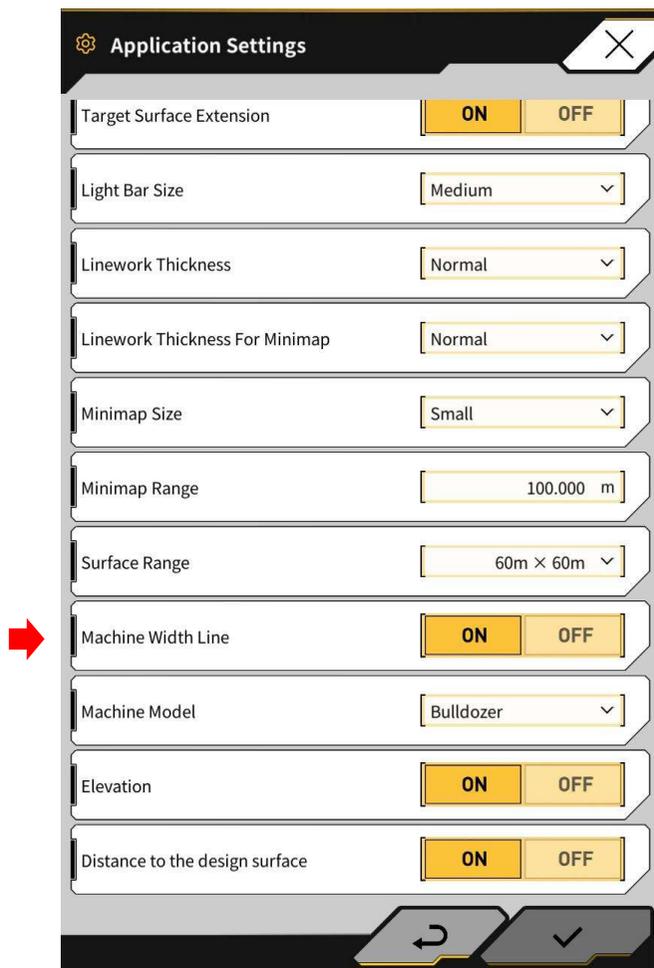


display



## 5. Display of extended vehicle width red line (top view)

From the application settings, extended lines for vehicle width can now be displayed on the top-view guidance screen.

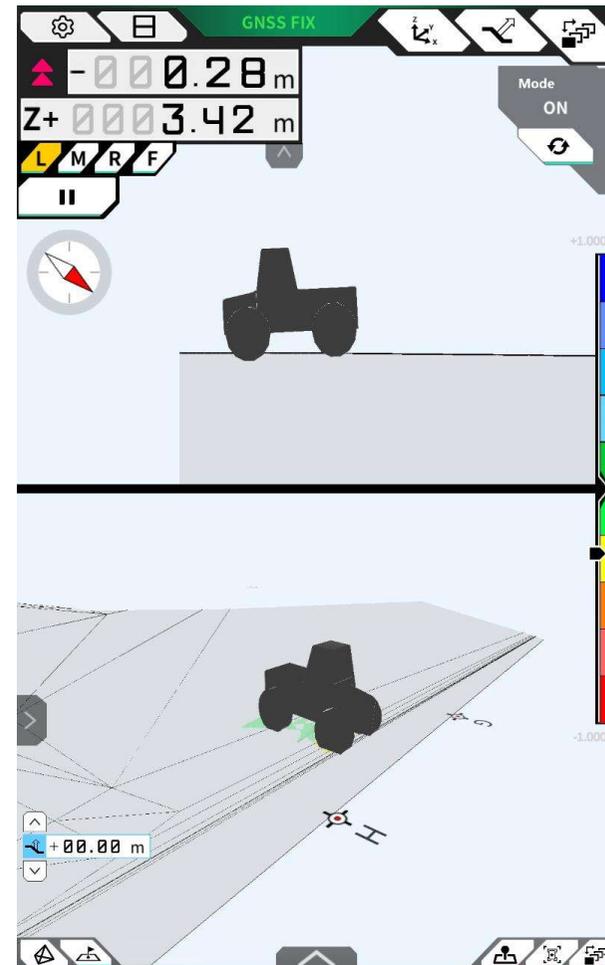
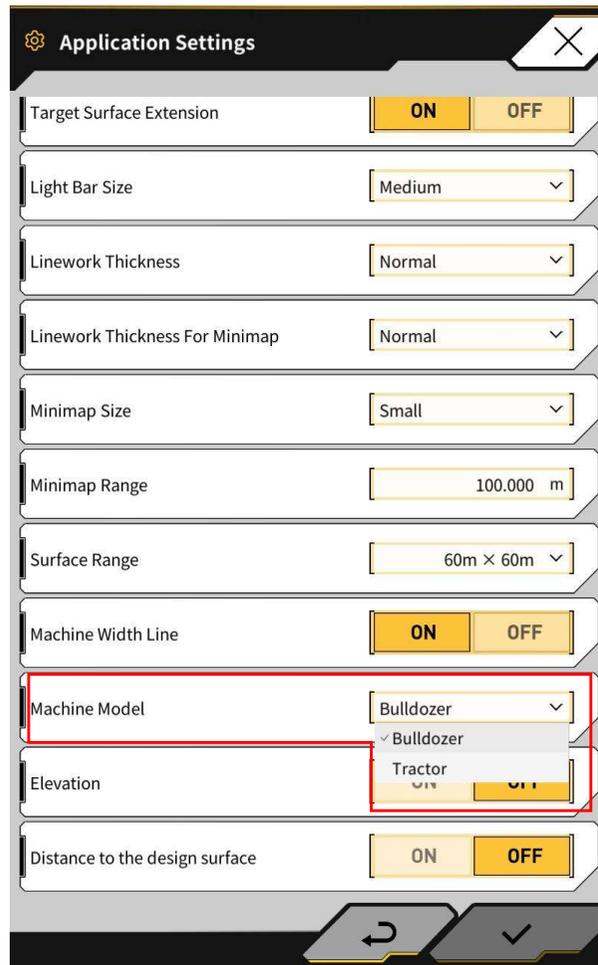


## 6. Added vehicle model (tractor)

From the application settings, a vehicle model (tractor) has been added.

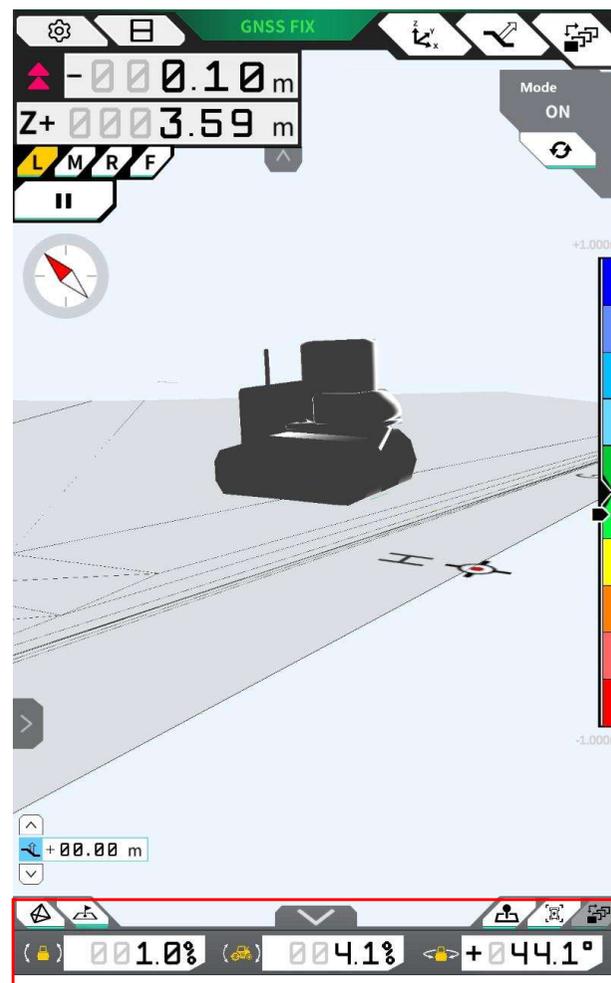
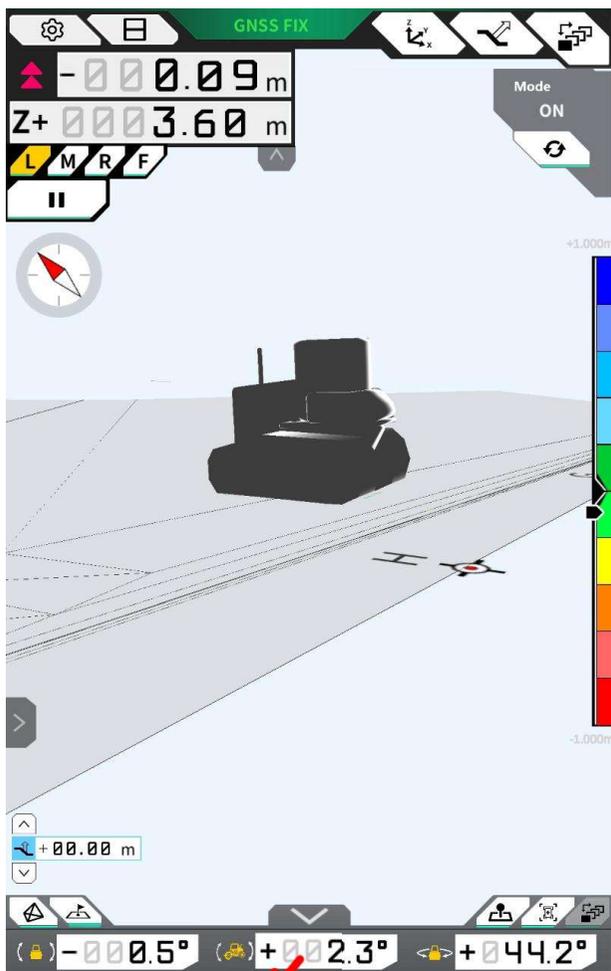
### Note

The vehicle dimensions will use the calibration values from the original bulldozer or rigid dump truck model.



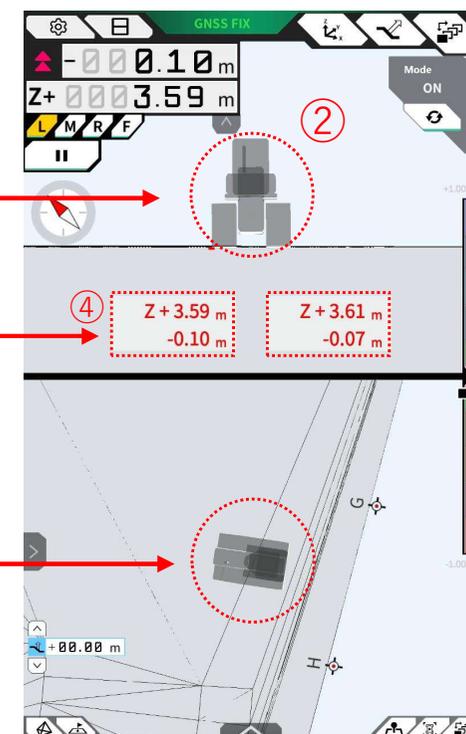
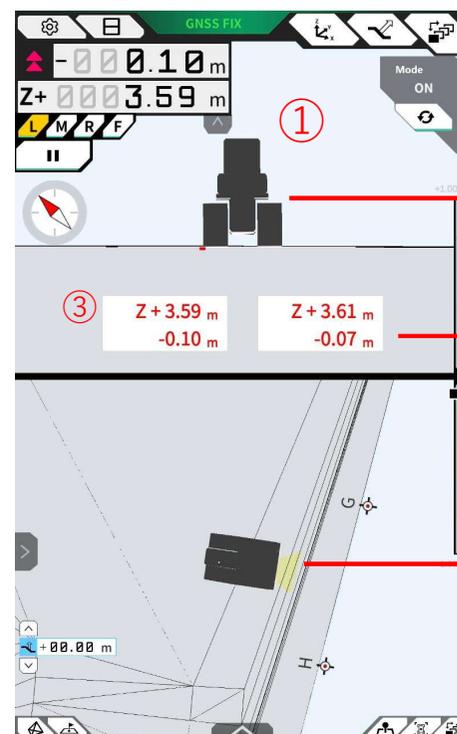
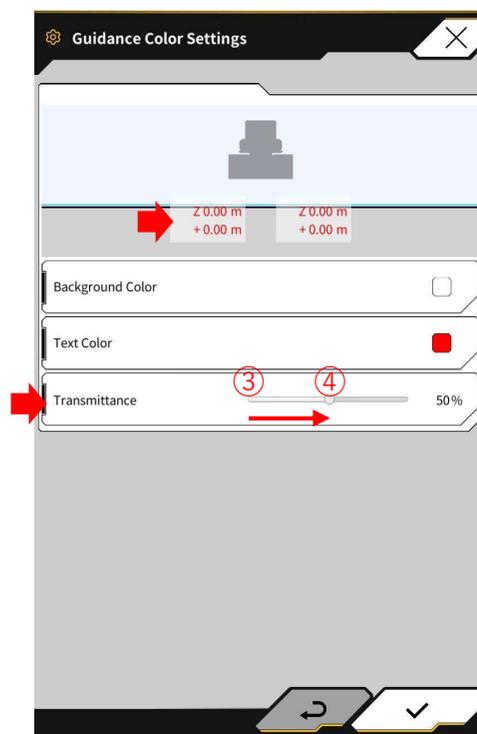
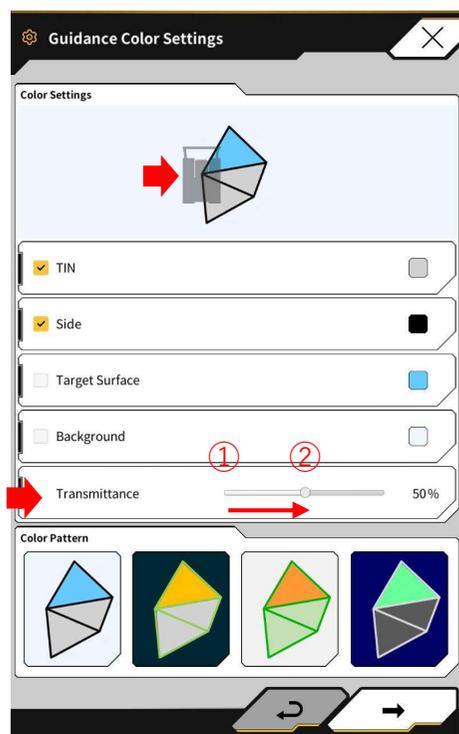
## 7. Display of vehicle pitch and roll angles

On the guidance screen, vehicle pitch and roll angles and slope percentage (%) can now be toggled at will by tapping the screen.



## 8. Transparency settings for the vehicle model

On the guidance color settings screen, the transparency of the vehicle model and the front guidance display frame can now be freely adjusted.



## 9. Changed the setting location for Ntrip V1/V2

The Ntrip client version setting has been moved to System Management > Basic Settings.

