Xsite® PRO 3D
MACHINE CONTROL FOR DOZERS
WHAT IS MACHINE CONTROL?
PRECISION AND PRODUCTIVITY

The machine control system guides the machine and the operator in attaining the target level quickly and easily. When the job is carried out properly the first time, you can save time, materials, and fuel. The increased productivity gained thereby shows in improved work profitability, which in turn enables cost savings and increased competitiveness.

For any earthwork contractor, it is important to perform work with quality, precision, and on schedule. Utilising machine control enables optimising the different phases in the earthwork process, from planning all the way to the upkeep phase.

When using 3D machine control, no staking-out is needed. The site elevation information is always present in the blades, and there is no need to set up lasers or stakes. The three-dimensional design models are always visible on the system display, which helps the operator to handle even the most challenging sites effortlessly.

With 3D machine control, the machine itself becomes a highly accurate measurement device.

BENEFITS OF 3D MACHINE CONTROL

- **The work gets done more efficiently** and quickly as the operator can concentrate on productive work. Less time spent on the contract means cost savings in employee, fuel, and machinery expenses.

- **No need for staking-out** since all the height information is always visible in the machine control system.

- **No excess cutting or filling**. Material and transportation costs decrease as the use and transportation of extra materials are no longer needed.

- **Higher accuracy** leads to more uniform work quality throughout the contract. Machine control turns a good machine operator into a great one!

- **Improved jobsite security**, as surveying close to the machinery is reduced.

- **The system guides the operator** in all weather conditions and, therefore, making the work easier especially under poor conditions, such as rain or darkness.

- As-built data can be saved by using a blade as the surveying tool. **The completed work gets documented** and the documents sent to the office for further processing.

- **Working becomes independent and smooth** as you don’t have to rely on surveyors or stakes.
With the Xsite® PRO 3D Dozer system you can measure to a line model and a surface model at the same time.

**XSITE® PRO 3D DOZER - SYSTEM FEATURES**

**ALWAYS KNOW THE BLADE POSITION**
Forget the constant manual grade checking! The Xsite PRO’s clear readings gives you exact information about your blade height and distance comparing to your target level.

**EASY TO LEARN AND OPERATE**
We have designed the Xsite® PRO to be as simple as possible to use, so that you can focus on productive work. The system also has step-by-step guides, so you won’t have any trouble utilizing different functions.

**CREATE MODELS YOURSELF**
Utilize the easy-to-use built in model tool to make simple 3D models, like small roads, foundations or barriers and use them as a reference when working.

**WIRELESS DATA TRANSFER**
Wireless connection enables easy data transfer between the jobsite and office. Models can be sent wirelessly to the system, and in the same fashion, collected data can be sent to the office for further handling or documentation purposes.

**SEE ALL MODELS AT ONCE**
Surface models, lines, points and background maps can be displayed on the system screen simultaneously, if desired. With the Xsite® PRO you can also measure to multiple objects at the same time.

**SAVE AS BUILT DATA**
You can document your work, like pipeline installations and constructed surfaces right from your own machine. As-built data can be used e.g. for quality control or tracking the jobsite progress.

**GET GUIDANCE VIA REMOTE SUPPORT**
With remote support, your local reseller can provide you with guidance without having to visit the site. Remote support connects your system to the service centre and can be used to offer training, advice or troubleshooting.

**ONLY ONE SIM CARD NEEDED**
Xsite® PRO system handles everything with only one SIM card: Data transfer, system updates, remote connection, RTK-correction and so on.

**CONNECTIBILITY**

**CLOUD SERVICES**
You can connect your Xsite® system to 3rd party cloud services like transferring and fleet management.
SPEED AND ACCURACY FOR DOZER WORK

1. QUICK SELECTION BUTTONS
Change quickly between different models. Don’t waste time browsing through complicated selection menus.

2. MODEL OFFSET
You can adjust the model offset value quickly while working.

3. MEASUREMENT VALUES
The dashboard guides you and shows you numeric values of your measurement, e.g. how far the blade is from desired level. This view is also easily customizable by the user.

4. PROJECT INFORMATION
The status bar shows the project name, selected bucket and other important information about the current project and the system.
5. MAP VIEW
The customizable map view shows you your project and the location of your machine. You can change and adjust the view just by one touch on the screen.

6. BLADE CORNER VALUES
Bucket corner indicators gives you constant information about the height difference between the bucket and the model. Bucket tilt indicator guides you to tilt your bucket to correct angle regarding to your model.

7. XD2 DISPLAYS
The XD2 display helps you to reach your target level easily and fast. The RGB LED’s are clear and visible regardless of the conditions.

8. PROFILE VIEW
Profile view shows you the shape of the selected model at one glance. The profile view can be changed easily by swiping.
**Xsite® - OPEN AND COMPATIBLE**

Xsite® PRO 3D machine control system allows for using network correction signals, base stations and satellite positioning devices from several different suppliers without issues. This avoids having to commit to single-vendor solutions and allows you to work on different projects without fear of machine control system incompatibility. This gives you a genuine competitive advantage in a market that keeps getting tighter.

"Xsite® PRO 3D is compatible with third-party software, like BIM Cloud Services. Different openBIM data formats can also be used without additional format conversions or compatibility issues."
DISPLAY
- Large 8.4" sunlight readable touchscreen
- Easy to read graphics
- LED Displays to indicate blade position

CONTROLLER MCC
- Powerful machine control computer
- Robust design for rough environments
- Comprehensive connectivity

CROSS SLOPE SENSOR
- Fast and accurate cross slope sensor
- Compact and rugged IP67 Enclosure
- Extremely durable and reliable

GNSS RECEIVER
- GPS, Glonass, Beidou and Galileo support
- 336 Channels for multi-constellation GNSS support
- Compact and rugged IP67 Enclosure

GNSS ANTENNA
- Rugged design
- Reliable and accurate
- Multiconstellation support

CONTROLLER HYDRAULICS
- Integrated 2D and 3D controller
- Processes values transmitted by the sensors
- Compares values and regulates the hydraulics
MOBA GROUP

The MOBA GROUP is a leading global player in the world of mobile automation. Close collaborations between the headquarter in Limburg am Rhein and subsidiaries all over Europe, Asia, North and South America create new perspectives for recent and future developments.

Superior technical know-how and more than 40 years of experience combined with an international dealer network guarantee a premium support – worldwide. INSPIRING MOBILE AUTOMATION - this is what the MOBA GROUP stands for since more than 40 years.

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