

# 3D MACHINE CONTROL FOR DOZERS

**With Blade Automation**

# BRING OUT THE BEST OF YOUR DOZER WITH XSITE<sup>®</sup> MACHINE CONTROL

**No need for paper plans, manual grade checking or jumping on-and-off the machine!**

Xsite<sup>®</sup> PRO 3D enables doing the work correctly at the first time, avoiding overcuts or undercuts. Work with centimeter accuracy without unnecessary interruptions.

All the project information and designs are displayed to the machine operator in real-time, in an easy-to-follow visual format.

**Xsite's blade automation system can be retrofitted to existing machines.**



## Benefits of Xsite<sup>®</sup> PRO 3D Machine Control



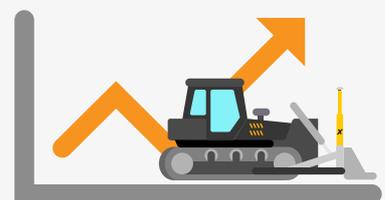
### NO OVERCUTS OR UNDERCUTS

With Xsite<sup>®</sup> PRO 3D, you'll always cut or fill the surfaces to the right level. The system's blade automation ensures high accuracy without re-work.



### STAY CONNECTED

Always work with latest project plans. Design models can be uploaded to the system with wireless data transfer automatically, so you can concentrate on productive work.



### INCREASE PRODUCTIVITY

Machine control system guides the dozer's blade automatically to attain the desired target level. When the job is carried out properly the first time, you can save time, materials and fuel.

# XSITE® PRO 3D MACHINE CONTROL (WITH BLADE AUTOMATION) SYSTEM COMPONENTS



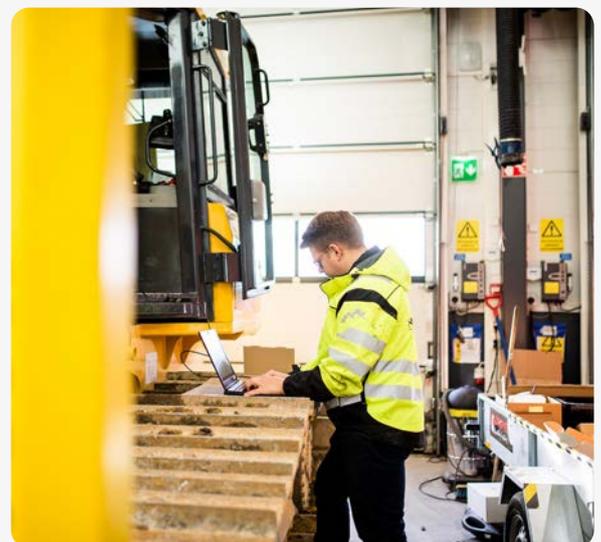
Components: Blade sensor, GNSS masts, GNSS antennas, Display unit (8,4"), 2 x LED-Display, Blade control unit, GNSS receiver, Hydraulics controller, Control unit (MC)

## Xsite® Machine Control

With more than 30 years of experience, our products are developed by a team of the most skilled and forward-thinking digital infrastructure professionals in the world, in close co-operation with machine operators, contractors and surveyors.

Our field-proven solutions have been used in the earthmoving industry since the early 1990s.

Xsite products are developed and tested in the tough conditions of Scandinavia in Northern Europe, the pioneer region of machine control and model based construction.



## BEST USABILITY FOR EVERY PROJECT

Whether you are working on a small construction site, or a large project with 3D design models, Xsite® PRO 3D will make your work easier, faster, and more accurate.



**Xsite**®  
MACHINE CONTROL

# BLADE AUTOMATION MADE EASY.

**Xsite® PRO 3D offers ease of use with intelligent features, real-time information and best customer support.**

## Familiar user interface

Xsite PRO 3D for dozers offers the same easy-to-use user interface than our excavator systems.

The system is very easy to use, even for operators with no prior experience on machine control.



## Easy-to-use blade automation

Xsite PRO 3D is designed to make the operator's day-to-day work easier.

This means that with Xsite, the machine operator can concentrate on productive work, instead of constantly operating the machine control system.

## The best user experience

Xsite PRO 3D's easy-to-use and intuitive user interface, real-time information and professional support guarantee the best possible user experience.

With Xsite® you'll do your best work yet!



# XSITE® PRO 3D - USER INTERFACE

## CHANGE ACTIVE MODEL

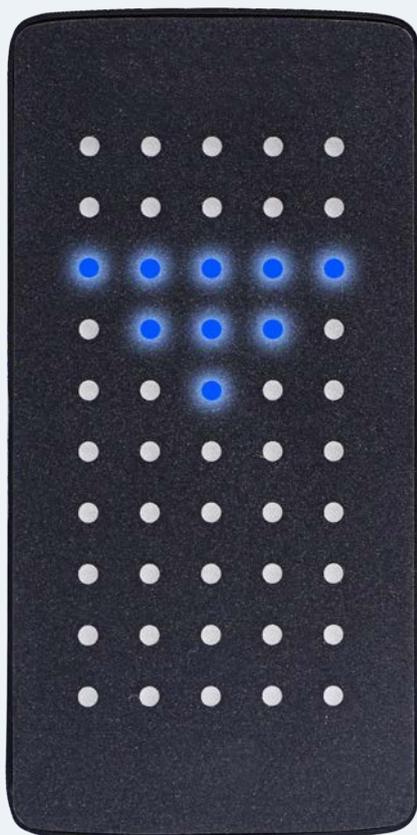
Change quickly between different 3D models on your project. No need to browse through menus.

## SURFACE OFFSET

You can adjust the model's height offset value easily while working

## PPROFILE VIEW

The profile view shows your blade's position in real time, in relevance to the shape/cut profile of the selected surface model.



## PROJECT INFORMATION

The status bar shows relevant project and system information.

## SYSTEM MENU

Easy access to main functions and customization options of the system.



### Familiar UI Gestures

The intuitive user interface makes the system very easy to use, even for operators with no prior experience of machine control.



### MAP VIEW

The map view shows you your project and the location of your machine in real-time. You can change and adjust the view easily to your liking.

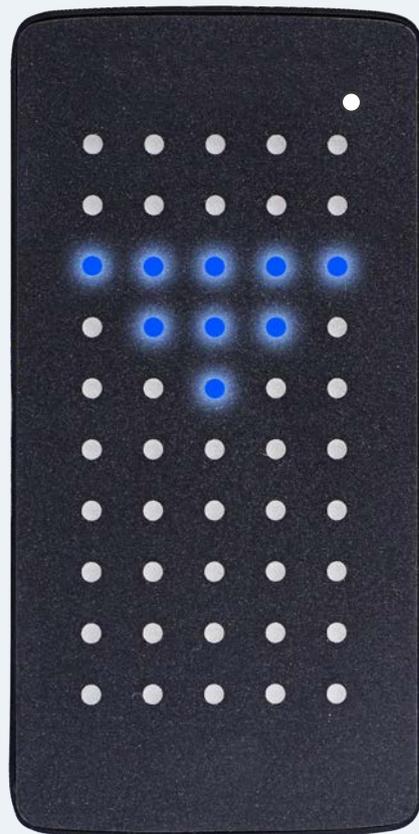
You can also select 3D models by "point and pick" directly from the map view.

### CUT / FILL GUIDANCE

Blade corner indicators give you real-time information about the height difference between your blades tip and the selected surface.

### MEASURING VALUES

The system's dashboard shows you the numerical values of your measurement. e.g. inclination or how far the blade is from the desired level.



### LED DISPLAYS

LED displays offer real-time information about how far the blade corners are from target level.

The two displays are easy to mount so that they don't block the operators view.

### PROJECT MENU

Easy access to project settings and functions related to your project.

# STAY CONNECTED

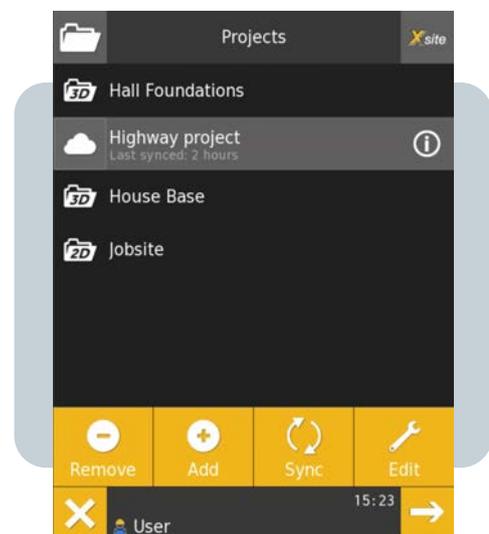
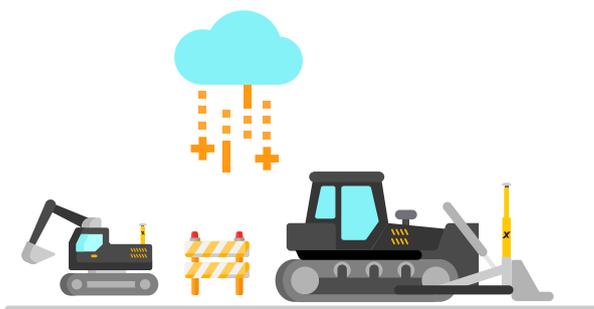
**Always work with latest project plans!  
Wireless data transfer enables the  
right information to be in the right  
place, in real time.**

## Automatic Data Synchronization

Fast information flow is crucial on a modern-day construction sites. With Xsite PRO's automatic data synchronization, the machine operator always has up-to-date project plans at hand.

In addition, the data collected with 3D machine control can be transferred automatically back to the office for quality control.

The same data is also available for site managers, surveyors, site-coordinators, and projects owners.



Xsite® PRO 3D can be also connected to a 3<sup>rd</sup> party software, e.g. Infrakit or Gemini.

## Data Sharing Between Machines

Sharing data such as collected points is possible between Xsite® PRO 3D systems when connected to the Xsite MANAGE cloud service.

Points collected by other machines are easy to tell apart by their symbol and color.

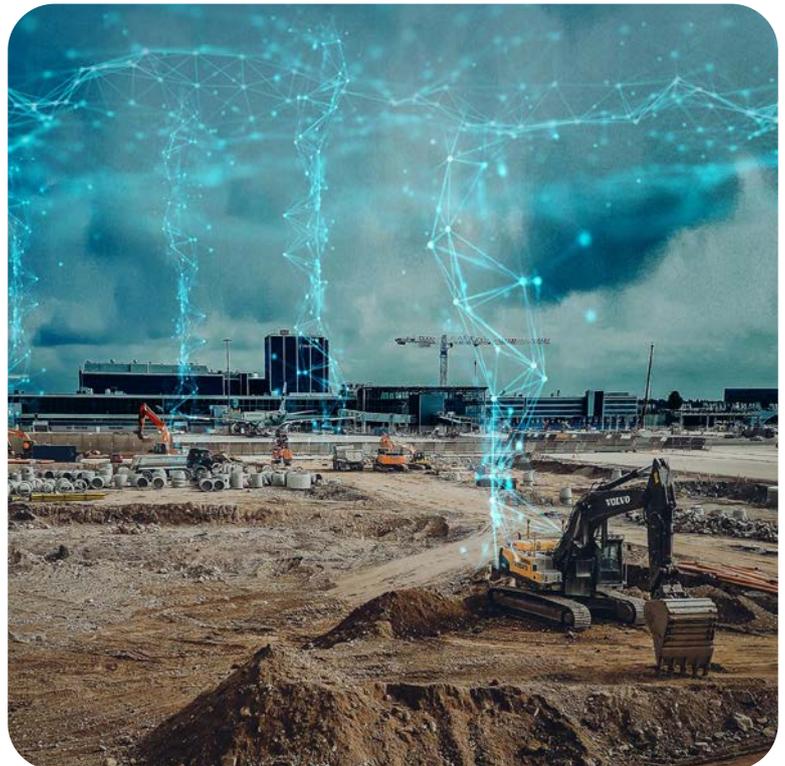


## Suitable For Every Jobsite

Unlike many other manufacturers, Xsite® products are based on open standard file formats.

This means you'll be able to work in different projects and not have to worry whether the project models will work on your system.

**With Xsite®, all 3D models will work automatically, from any designer, without unnecessary conversions or file flippers.**



## Supported File Formats

For the convenience of the operator and the designer, Xsite® PRO 3D supports open standard file formats: **.XML and .DXF**

# NO 3D MODELS? NO PROBLEM.

**Harness the efficiency of 3D machine control in every project - Make your own 3D models easily from the cabin with built-in model tools.**

## **Take full advantage from Xsite® PRO, even in smaller sites.**

With Xsite® PRO 3D you can create simple or more advanced 3D models from scratch without leaving the cabin.

This speeds up the construction process remarkably - No need for manual grade checking or waiting for a surveyor to visit the site.

A built-in guide helps you through the process step-by-step, so you can put your time to productive work!

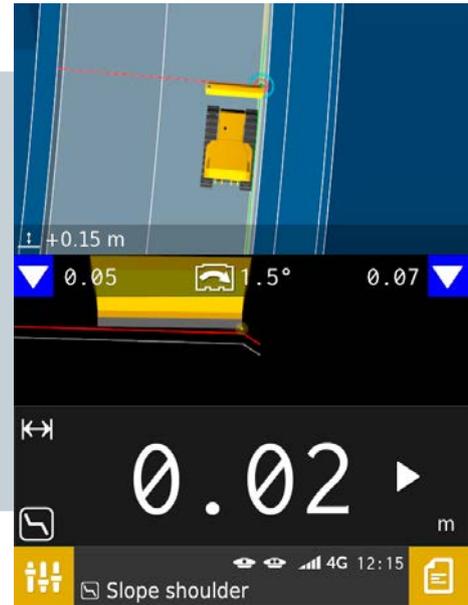


# Add 3D models to an existing project

You've received 3D models for a project from the designer, but some models are missing? No problem, with Xsite® PRO you can easily add self-created 3D models to project designs.

You can create a new surface model by using an existing line model as a reference, for example.

You can also duplicate an existing line, and set a new height and sideways position for it.



## Xsite® PRO Model tool -Features

- Create planes & slopes quickly
- Create cut profiles
- Add 3D models to existing projects
- Create line models easily
- Use existing lines as reference/ center lines for profiles
- Offset surfaces



Xsite® PRO enables you to harness the efficiency of 3D machine control even in every project. The operator can easily create e.g. a sloped plane model using the built-in model tools. This speeds up the construction process remarkably - No need for manual grade checking or waiting for a surveyor.

## NO OVER OR UNDER CUTS

With Xsite® PRO 3D you'll always cut or fill the surfaces to the right level. The system's blade automation ensures high accuracy without re-work.



# XSITE® PRO

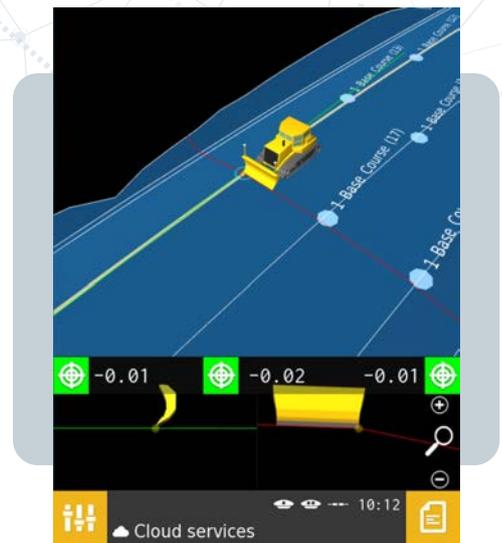
# COLLECTING POINT DATA

**Document as-built information from surfaces, cables, wells etc. with one simple touch.**

Documenting completed work, also known as as-built, is one of the key benefits of 3D machine control.

Documenting as-built with Xsite PRO 3D is made quick and easy for the operator. Just one simple touch, and the system stores an as-built point, with all the relevant information!

Collected point data can be automatically saved to Xsite® MANAGE cloud service.



**X COORDINATE:** 6782261.46,  
**Y COORDINATE:** 21530729.08,  
**Z COORDINATE:** 23.10  
**POINT CODE:** 109  
**DESCRIPTION:** BASE COURSE  
**POINT ID:** 10  
**TIME:** 08:24:20 **DATE:** 05.10.2021

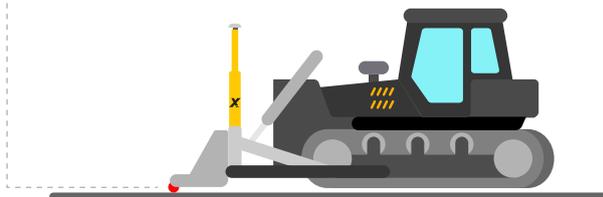


## Stake / Log points

With Xsite PRO 3D, the operator can also stake points or lines. This is especially useful when installing equipment that was not in the original designs.

The saved point data can be transferred wirelessly back to the designer or office.

As-built information documented with Xsite contains more than just point coordinates.



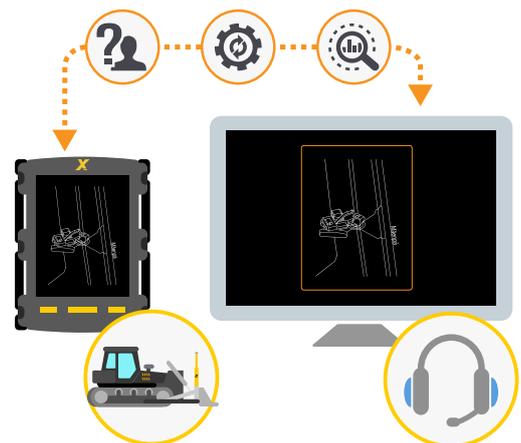
# BEST SUPPORT GUARANTEED

**Our friendly and professional support ensures that you can keep working smarter without interruptions.**

## **Xsite® Remote Support Minimizes Downtime**

To maximize the return on your machine control investment, the equipment needs to be ready for use at all times.

With remote support, your local Xsite support personnel can provide you with guidance or troubleshooting without having to visit the site.

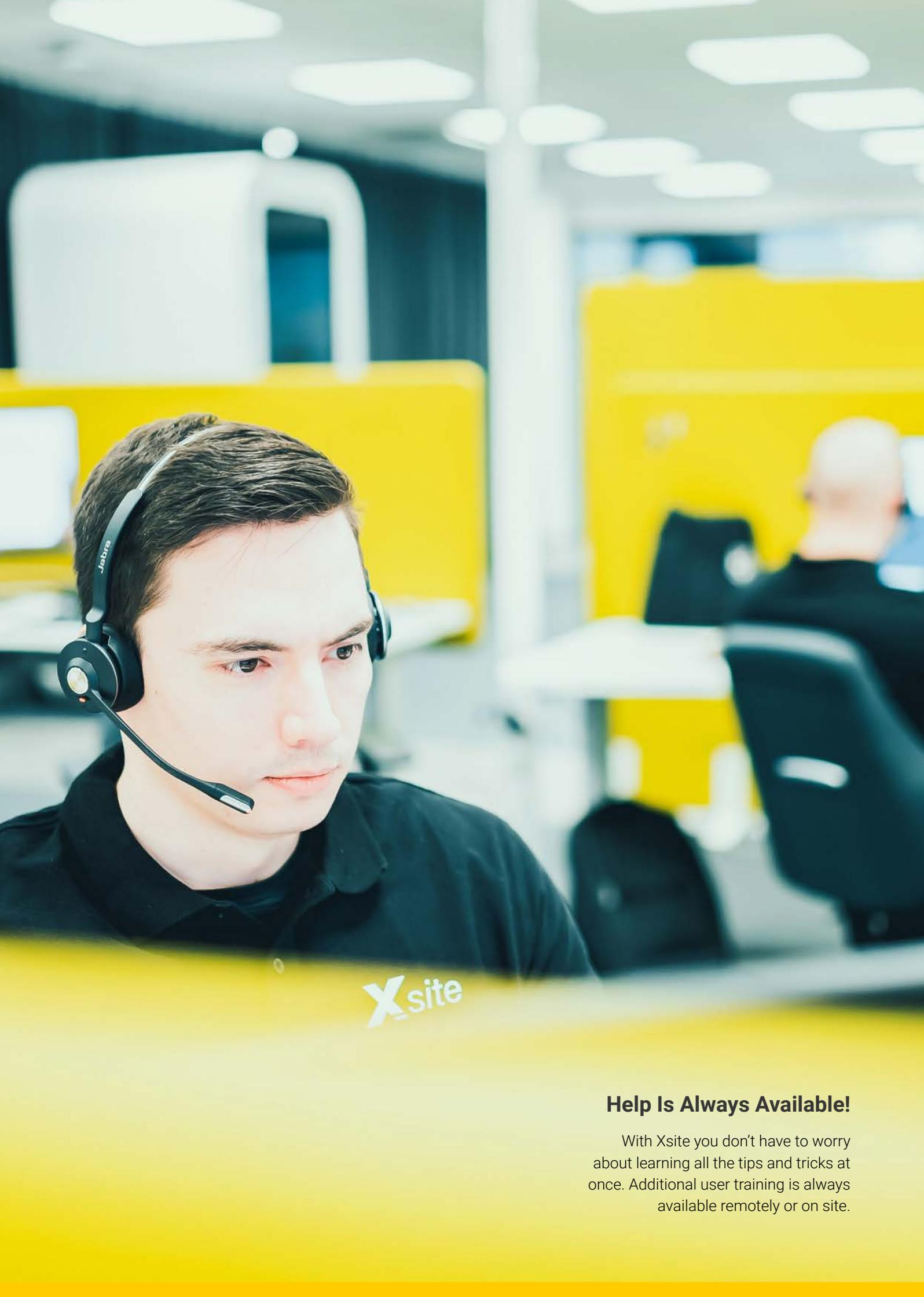


### **Xsite® Remote Support**

- Operator training
- How-to / Guidance
- Troubleshooting
- Software updates

### **How Does It Work?**

With remote support, your local Xsite support personnel can access your machine control system wirelessly. The support person can see your systems view on their own screen, and operate the system remotely in real time.



Xsite

**Help Is Always Available!**

With Xsite you don't have to worry about learning all the tips and tricks at once. Additional user training is always available remotely or on site.

# TIME TO GET PERSONAL

**Xsite® PRO 3D offers the operator an easy way to customize the system's user interface.**



## A menu that makes sense

Xsite® PRO offers a clear main menu that is easy to navigate. All the important functions are easily accessible.

## Transform it to your liking

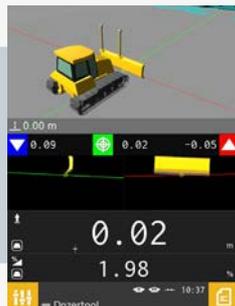
Customizing the system's UI and views to serve your needs on site is made simple and easy.

### Customizing options

- Edit dashboard layout
- Show/hide main view elements
- Set user profiles
- Set quick button functions
- Edit LED-display settings
- Change measuring units

### Don't need it? Leave it out.

Xsite® PRO's main view can be easily customized to suit the operators needs in different projects.





**Xsite**<sup>®</sup>  
MACHINE CONTROL



# SPECIFICATIONS

Xsite® PRO 3D with Blade Automation - For dozers

## DISPLAY

Size:	8,4"
Type:	Touch / TFT-LCD
Multitouch support:	Yes
Antiglare panel:	Yes
Mounting:	RAM mount
Connectivity:	2 x USB

## SENSORS

IP rating:	IP 67
IMU:	Yes
Connectivity:	CAN-Bus (Military)
High durability:	Yes

## SATELLITE POSITIONING

Dual GNSS:	Yes
Constellation support:	(Multi) GPS, Glonass, Galileo, BeiDou
Correction types:	NTRIP (All vendors), Radio
Correction formats:	CMR, CMR+, sCMRx, RTCM 2.1, 2.2, 2.3, 3.0, 3.1, 3.2

## FILE FORMATS

Xsite® PRO 3D supports open standard file formats:  
.DXF and .XML

## CONNECTIVITY

Wireless data transfer:	Yes
Remote connection:	Yes
3 <sup>rd</sup> party cloud services:	Yes
Mobile data	2G, 3G, 4G (Via regular SIM card)
Other:	2 x USB (Suitable for manual data transfer)



Join our community!



## BRING OUT THE BEST

Xsite® Machine Control improves the productivity and accuracy of your work at every stage of your construction projects.

Cut your operating and maintenance costs, increase work safety and bring out the best in your staff and fleet!

Find your local Xsite® dealer. Visit:  
[XSITEMACHINECONTROL.COM](https://www.xsitemachinecontrol.com)

### Need something else?

Xsite® Machine Control systems are **developed together with our customers, machine operators and construction companies** all over the world, to provide the best systems for any construction project.

Don't hesitate to contact your local Xsite® dealer for any feedback or development idea on our products.

**Xsite®**  
MACHINE CONTROL