

WHAT IS MACHINE CONTROL?

PRECISION AND PRODUCTIVITY

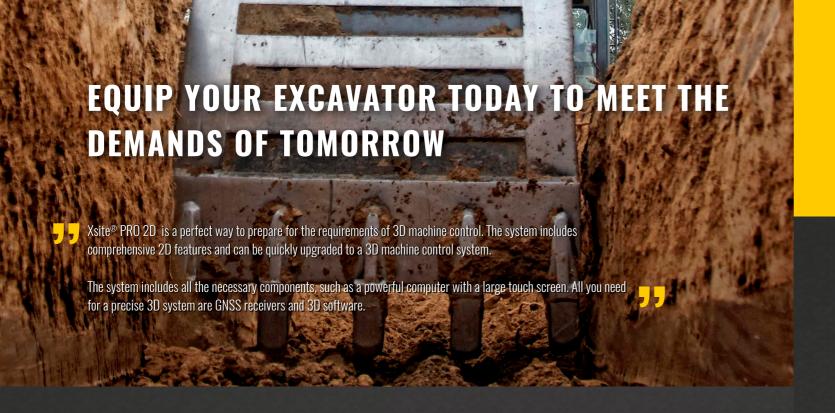
The excavator's machine control system guides the machine's operator to reach the target level quickly and easily. When the job is carried out properly the first time, you save time, materials and fuel. The increased productivity gained will show in improved profitability which, in turn, enables cost savings and increased competitiveness.

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

THE BENEFITS OF 2D MACHINE CONTROL

- The work gets done more efficiently and quickly as the operator can concentrate more on doing productive work. Less time spent on the contract means cost savings in terms of employees, fuel and machinery.
- No grade checking and jumping off the machine.
- No excess cutting or filling. Material and transportation costs decrease and transporting extra materials is no longer necessary.
- A higher level of accuracy results in more uniform quality of work throughout the contract. Machine control turns a good machine operator into a great operator!
- Improved job site security as surveying close to work machinery or during excavations is reduced.
- The system guides the operator in all weather conditions, thereby making the work easier, especially in poor conditions such as in the rain or in darkness.





XSITE® PRO 2D - VERSATILE 2D SYSTEM



XSITE® PRO SYSTEM CAN BE INSTALLED ON ANY EXCAVATOR!

SYSTEM FEATURES



ALWAYS KNOW THE BUCKET HEIGHT

Forget constant manual grade checking! The Xsite PRO 2D's clear reading gives you exact information about your bucket's height and distance compared to your target level.



WORK WITH **SLOPES**

Working on slopes is easy with the Xsite PRO. Just enter the target slope into the system, reset your height value and start working!



WORK UNDERWATER - DIGGING/DREDGING

Xsite PRO uses next generation G2 sensors that are fully waterproof. G2 sensors also have an internal heating element, ensuring accurate measurements.



CREATE SIMPLE MODELS YOURSELF

Utilize the easy-to-use built-in model tool to make simple 3D-models, such as ditches or barriers, and use them as a reference when working.



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.



INCEREASE SAFETY WITH WARNING LEVELS

Be safe when working under power lines or bridges, for example. With the Xsite PRO you can set a warning if your boom or bucket is rising too high or going too far.



USE A LASER AS A REFERENCE

The system's laser receiver enables you to move your machine at the site without losing the original level. The laser can also act as a reference level.





SUPPORT FOR TILTROTATORS

Connect your tiltrotator to the Xsite® system and make precise measurements, regardless of the bucket's angle or position.



JOYSTICK INTEGRATION

Save time and use functions such as resetting the height or heading value straight from your machine's joystick buttons.



GNSS COMPASS

Make work on dual slope projects easier.
The accurate GNSS compass supports multiconstellation systems so it uses all types of



EASE OF USE FOR EVERY TASK



XSITE® PRO - OPEN AND COMPATIBLE



The **Xsite® PRO** machine control system ensures you are always equipped for every requirement of a construction project. Whether it is traditional foundation or levelling work, or a larger, more complex project, the Xsite® PRO system guarantees pinpoint accuracy and ease of use.



DISPLAY

- » Bright and clear colour display
- » Large 8.4" touchscreen
- » Easy to read graphics
- » 2 x USB port



01

CONTROLLER MCC

- » Powerful machine control computer
- » Robust design for rough enviroments
- » Comprehensive connectivity



02

SENSOR G2

- » Fast and accurate 3D orientation sensor
- » Internal heating unit for ultimate accuracy
- » Next generation sensor fusion technology
- » Extremely durable and reliable



03

LASER RECEIVER EL3 (optional)

- » Quick-fix system for easy mounting/dismounting
- » Large laser reception area (150 mm)
- » Status indicator LED



04

GNSS COMPASS (optional)

- » Compact design
- » Reliable and accurate
- » Multi-constellation support



05

LED-DISPLAY XD2 (optional)

- » RGB LED extra display
- » Arrow indicators for excavation levels
- » Correct height at a glance



06

CUSTOMER CASE

MAKING A DRAINAGE DITCH

USING A GNSS COMPASS AND A LASER

Veljekset Korkala Oy, a Finnish earthmoving contractor, had to construct a 2.5-kilometre long drainage ditch for a peat swamp in Northern Finland. The challenge was that a 1.5 percent slope was required for 2.5 kilometres and all excess cutting had to be avoided.

To meet the requirements of the project, the contractor equipped its machine with an Xsite® PRO system and utilized the EL3 laser receiver and Xsite® GNSS compass.

The model for the excavation was made using the Xsite® PRO's in-built profile tool.





CASE EXAMPLE

BUILDING HOUSE FOUNDATIONS

USING A LASER







FIVE SIMPLE STEPS

Step 1. Set up the rotating laser for any height Step 2. Enter the job site height of the system

Step 3. Add a plane model from the menu and enter the planned height into system

Step 4. Catch the laser beam with machine's stick

Step 5. Start working.

The system shows you the target level, height and position of your bucket, so you'll always know how much to cut or fill.



The **EL3** laser receiver has a wide 15 cm receiving area, so you won't have any trouble catching the laser beam. The shock absorbing and robust design of the receiver will ensure that your equipment is fully functional even in the roughest environments.



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