

XSITE[®] SYSTEM



MOBA XSITE / EXCAVATOR CONTROL SYSTEMS

MOBA-AUTOMATION.COM.AU

MOBA

EXCAVATOR CONTROL SYSTEMS

Construction sites and their processes are becoming increasingly complex. The demands on construction site organisation are increasing, the tasks of machine operators are growing, time and cost pressures are high.

MOBA excavator control systems are to construction machinery what driver assistance systems are to cars: they support and relieve the excavator operator, they optimise the work process and increase productivity. They also increase safety on the construction site.

QUALITY SINCE 1972

MOBA Mobile Automation AG has been an established name in mobile automation for more than 50 years. Our expertise and many years of experience in automation technology distinguish us as a globally recognised experts in the development and manufacture of machine control systems, identification and mobile weighing technologies and flexible software solutions.

From its foundation as an engineering office in 1972 to the present day, the owner-managed family business has developed into the globally represented MOBA Group with four branches in Germany and fourteen subsidiaries in Europe, Asia and America.

Today, we employ more than 500 people worldwide, around half of whom work at our headquarters in Limburg. Whether levelling systems for asphalt pavers, identification technologies and weighing systems for waste disposal management or safety-relevant technologies for aerial work platforms - we offer powerful, reliable machine control systems for a wide range of machines and areas in mobile automation.

Xsite®



EARTH FIRST!

THE PERFECT SOLUTION FOR MORE EFFICIENT EXCAVATION



Manual control measurements are completely omitted

90%

90% of the surveying work can be reduced



Safety on your construction site is increased

MOBA excavator control systems enable a smooth and efficient construction site operations. Your personnel no longer have to remain in the construction area and can be scheduled for other tasks. This increases safety on the construction site, especially in areas with poor visibility.

With MOBA excavator control systems, up to 90% of the surveying work on your construction site can be reduced, as manual control measurements and thus a possible source of error are completely eliminated. Successful project completion is guaranteed thanks to the efficient use of your machine.

Excavator work can be optimally planned and recorded by you and you also save up to 20% of your machine's fuel consumption. MOBA excavator control systems therefore not only increase productivity, but also the profitability of your company.

MOBA excavator control systems are customised to your needs. Whether simple or complex work, the system supports you precisely in your work, both in 2D and 3D. We have the right solution for every application.

Thanks to the powerful hardware and software, MOBA excavator systems work just as efficiently as you do, saving you time and money.

- » Minimal downtime thanks to quick and easy installation of the system
- » Simple commissioning and calibration
- » Intuitive, clear presentation of information thanks to our sunlight-readable, full-colour 8.4" display and operating unit with touch function
- » Clear, continuous monitoring of work progress from the driver's cab

The experience of a good machine operator and the precision of the MOBA excavator control system get the maximum performance out of your machine!

WHO BENEFITS FROM MOBA EXCAVATOR CONTROL



SITE MANAGER / FOREMAN



MACHINE OPERATOR



CONSTRUCTION COMPANY



DEALER

OPERATOR

The machine operator is ideally supported by the MOBA excavator control system, whether in daylight or in the dark. All important information is clearly displayed on the control unit in real time. This enables fast, but also extremely precise work without having to constantly carry out manual measurements. The driver no longer has to leave the cab.

DEALER

With MOBA components installed on their machines, construction machinery dealers and rental companies clearly stand out from the competition: MOBA excavator controls add significant value to excavator machines. This applies not only to construction machinery dealers and rental companies, but also to system integrators! Upgrading the machine with MOBA components is non-destructive, i.e. they can be removed again at any time without leaving any residue. MOBA also offers comprehensive service and support.

CONSTRUCTION COMPANY

The increase in productivity combined with lower material usage and transport costs is a major advantage for contractors. This increases the efficiency of the machine while minimising the time required to complete a construction site. The effectiveness of machine utilisation can be significantly increased - our service team will be happy to calculate this individually for your construction projects.

SITE MANAGER / FOREMAN

The site manager/foreman also benefits from MOBA excavator control systems. These enable a smooth and efficient construction site process in the wider context and you can better organise your personnel. In addition, more safety is ensured on the construction site. Work carried out can be easily documented by the system and thus provide meaningful evidence of the progress of the construction site.



Xsite®

ARE YOU X-SITED?

With our robust Xsite excavator control system, you are ideally equipped for everyday construction work. Harsh weather conditions, rough terrain or poor visibility are no longer a challenge for you. Our robust technology can withstand the toughest conditions with ease. We are the only supplier in the industry to offer heatable 3-axis 360 degree inclination sensors that can be used universally on all systems. This guarantees maximum accuracy and speed at all times. Another unique selling point is our one-of-a-kind unique laser receiver with a reception range of 15 centimetres, which guarantees reception to the laser transmitter at any times and thus

enables time-efficient and uncomplicated work. The intuitive software provides you with optimum support in your daily work. The robust GNSS antennas enable the excavator's position to be determined very accurately, regardless of visibility and weather conditions. Whether for creating driveways, laying pipes, building a house or a road, our excavator control systems are the best choice for all types of earthmoving work.

SERVICE

You deserve a special service that fulfils your requirements. MOBA is at your side as a competent partner - at all times.

Our service technicians and application engineers guarantee you the best quality, many years of experience and constant mobility. We guarantee you a premium service on site on request.

90% of all support cases can already be resolved remotely. This saves downtime and costs.

Xsite EASY

IDEAL IMPLEMENTATION OF SIMPLE EARTHWORKS

The 2D Xsite EASY system measures the depth, height and inclination of the bucket and shows the bucket position graphically and numerically on the display. The upper carriage sensor guarantees the correct measured values in every excavator position, whether standing on a slope or on level ground. The simple light-bar shows at a glance whether the target height has already been reached or whether further excavation is required. This allows you to keep track of the exact work progress at all times and implement specifications precisely.

Thanks to the option of using a rotating laser in combination with the bucket as a height reference, the driver can check the height from the comfort of the cab. This saves time and increases safety. Even in difficult visibility conditions, such as when working in the dark or under water, the Xsite EASY always gives you the right view. The system is ideally suited for use in foundations, trench or embankment construction, for levelling or underwater excavation.



Xsite EASY



Xsite PRO

Xsite PRO / Xsite PRO ADVANCED

EFFICIENT WORKING IN 2D OR 3D

With the Xsite PRO, you can benefit from additional features such as up to two GNSS antennas that record the excavator's position via satellite. Thanks to the fast processor, your measured values are processed in real time and immediately displayed on the convenient 8.4" graphic display with touch-screen. The option of defining several profiles for different jobs and having them available at all times saves you time, fuel and material while increasing the efficiency of your machine.

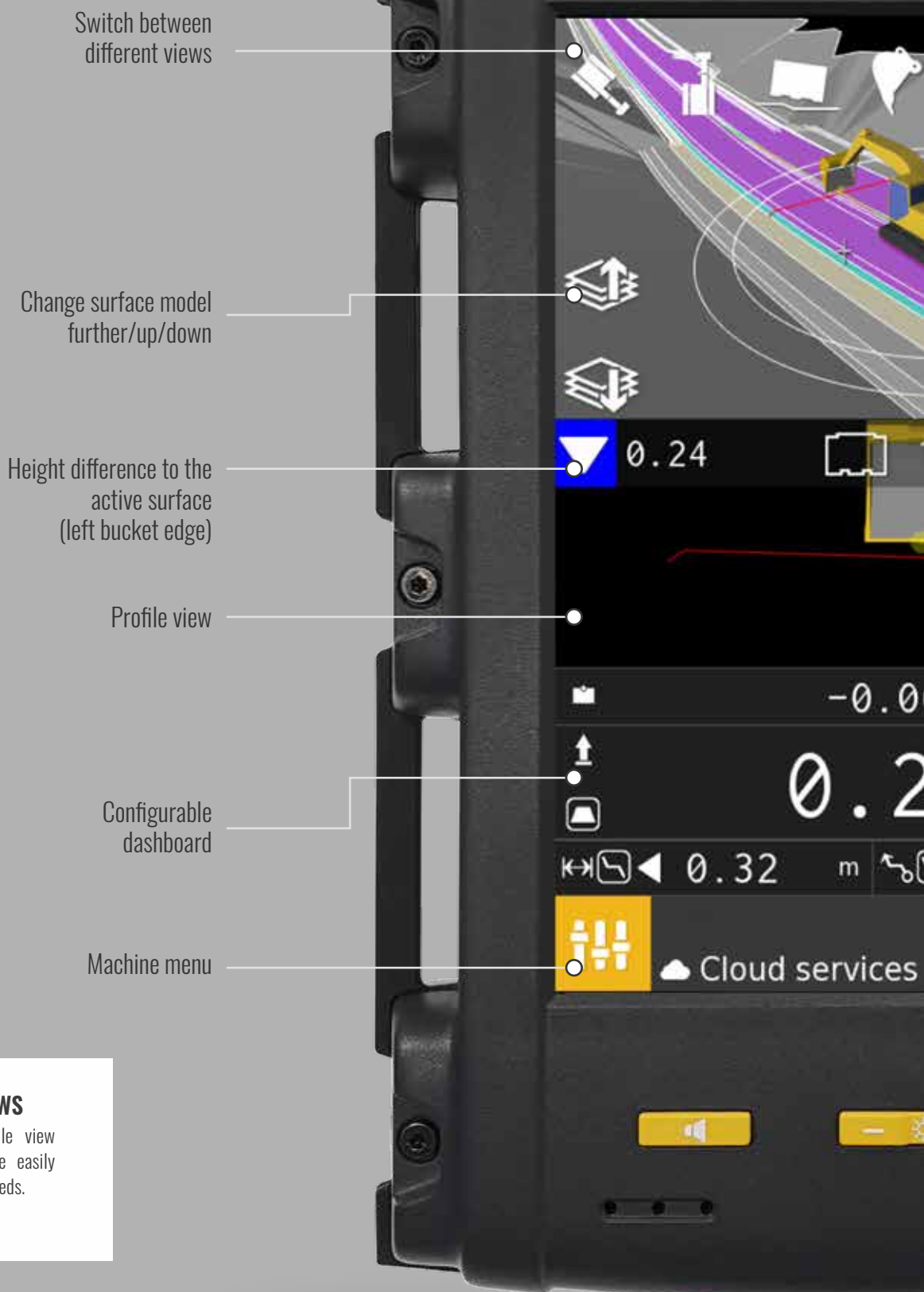
Always remain flexible for challenging jobs with our modular software. Cost-effective upgrades can be carried out at any time and offer additional functionalities. After starting out in the 2D world, you can upgrade to a 3D system at any time, allowing you to easily import digital terrain models with multiple levels if required. This allows you to work precisely and realise the planning specifications directly without the need for corrections. If required, the wireless data transfer also allows you to process the data from the office, whether for further development, documentation or support purposes.

Thanks to the support of tilt-rotators, you can optimize the use of your excavator.

SYSTEM COMPARISON	Xsite EASY	Xsite PRO 2D	Xsite PRO 3D
Depth, distance and slope measurement	×	×	×
Creating profiles	-	×	×
Creating 3D models	-	-	×
Importing 3D models	-	-	×

Please refer to the data sheet for the exact product functions

USER-FRIENDLY FOR ANY PROJECT



Switch between different views

Change surface model further/up/down

Height difference to the active surface (left bucket edge)

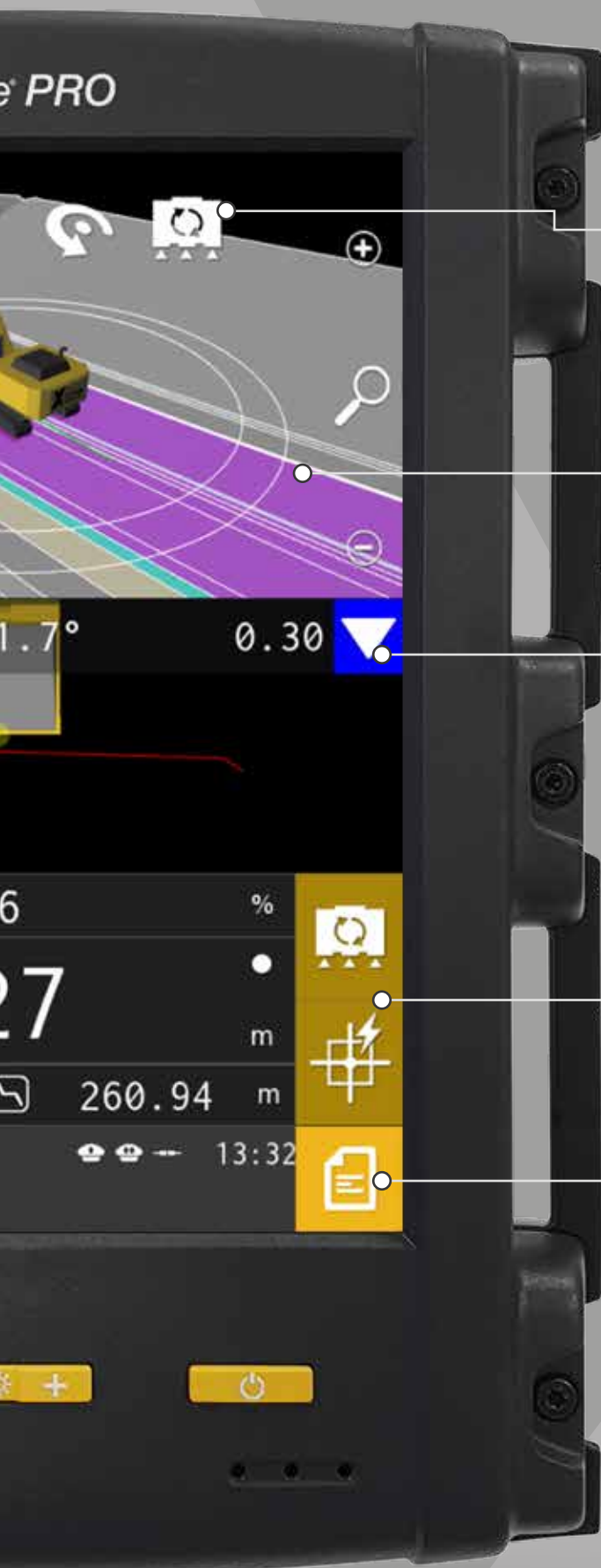
Profile view

Configurable dashboard

Machine menu

CUSTOMISABLE VIEWS

The map view and profile view of Xsite PRO 3D can be easily customized to the user's needs.



Change measuring point
from the bucket

Map view

Height difference to the
active surface
(right bucket edge)

Configurable
buttons

Project menu

FAMILIAR OPERATION

Thanks to the intuitive user interface, the system is very easy to operate, even for operators with no prior knowledge of machine control.

XSITE[®] - BENEFITS



BUCKET POSITION ALWAYS KNOWN

No more manual checking necessary. The clear visualisation on the Xsite display provides precise information about the bucket height and distance to the target cavity.



USING A LASER REFERENCE

The laser receiver allows the machine to be moved without losing the reference height.



WORKING UNDER WATER/ DREDGING

Xsite uses the latest G2 sensors, which are completely waterproof. The G2 sensors also have an internal heating element for accurate readings.



ALL MODELS AT A GLANCE

Digital terrain models, lines, points and background maps can be shown simultaneously on the display. The Xsite PRO system can also be used to measure several objects at the same time.



CREATING SIMPLE MODELS

The integrated modelling tool can be used to create simple 3D models, e.g. trenches or excavations, which can be used as a working reference.



STORING AS-BUILT DATA

The documentation of pipelines or created surfaces, for example, can be realised directly with the machine. As-built data can be used, for example, for quality reports or to document the progress of work.



GREATER SAFETY THANKS TO WARNING LEVELS

Greater safety when working under power lines or bridges. Xsite warns if the bucket or boom is deflected too high or too far.



CLOUD SERVICE

Xsite PRO is compatible with third-party providers for cloud solutions, e.g. for data transfer and fleet management



HELP THROUGH REMOTE SUPPORT

With remote support, the local service partner can provide support without being on site. Remote support connects the system to the service and can be used for training or troubleshooting.



JOYSTICK INTEGRATION

Various system functions can be operated directly from the machine joystick



SUPPORT FOR TILT-ROTATORS

Connecting tilt-rotators to the Xsite system enables precise measurement, regardless of bucket angle or position.



IMPORT 3D TERRAIN MODELS

Xsite PRO enables the import of complex design files using standard file formats.



WORKING WITH SLOPES

Working with slopes is easy with Xsite. Simply set the target gradient, set the height and start working.

XSITE® - OPEN AND COMPATIBLE

The Xsite PRO system enables the problem-free use of network correction services, base stations and GNSS receivers from different manufacturers. This means that you are not tied to just one manufacturer and can work on different projects without fear of incompatibility. This gives you a clear advantage in a competitive market.

„Xsite PRO is compatible with third-party software such as BIM cloud providers. Various openBIM data formats can be used without conversion or compatibility issues.“

XSITE® OFFICE CLOUD SERVICE FOR INFORMATION AND FILE TRANSFER

Xsite OFFICE is a web-based, free cloud service for processing files and information.

AUTOMATIC FILE SYNCHRONISATION

Automatic file synchronisation ensures that all machines have the same, up-to-date models.

WEB-BASED SERVICES

Xsite OFFICE can be used on your device without installing any additional software.

QUALITY CONTROL

The data export of Xsite Office supports all open (openBIM) data formats. This enables the export of as-built data from specific layers, machines and time windows.

SUITABLE FOR LARGE-SCALE PROJECTS

Xsite OFFICE supports sub-folders, there is no limitation in file size or number of machines.



YOUR EXPERTS WORLDWIDE

- 📍 MOBA HEADQUARTERS
- MOBA SUBSIDIARIES



MOBA GROUP

The MOBA Group has been a major player in mobile automation for more than 50 years. Our know-how and experience make us a globally recognized expert.

We develop and manufacture innovative machine control systems, identification and mobile weighing technologies, as well as flexible software solutions. MOBA components and systems are also used in areas where robust and reliable sensors, controllers and control units are needed.

First Choice in Mobile Automation - this is what the MOBA GROUP stands for since more than 50 years.

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YOUR LOCAL MOBA PARTNER:

