



INTELLIGENT MACHINE CONTROL



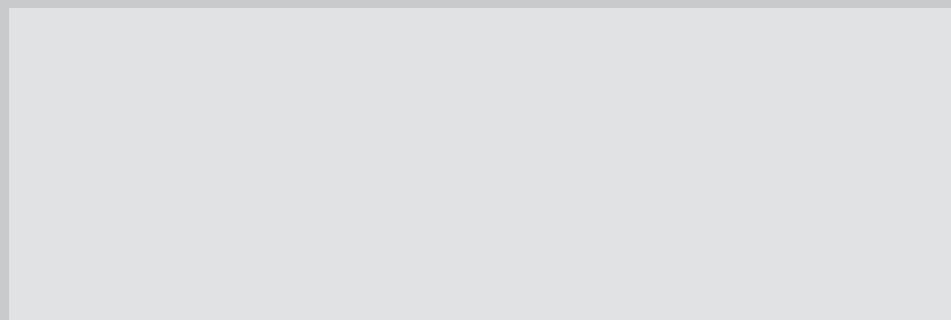
INTELLIGENT MACHINE CONTROL



Efficient Excavating Solutions



Your local dealer



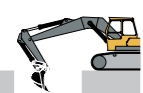
MIKROFYN A/S · Bondovej 16
DK-5250 Odense SV · Denmark
www.mikrofyndk.com

HR-Design.dk

Excavating Solutions

Standard

DEPTH
- Commonly used for the bases, foundations, etc.



UNDERWATER WORK
- The bucket motion is shown in the graphical display.



SLOPE
- Set the desired slope at slope tion.



PLANNING WORK
- Set the right depth and the desired tilt in one direction.



PIPE-LAYING
- Set the desired depth and slope of the pipe trenches.



LASER REFERENCE
- Gives possibility to use rotating laser as a reference.



- Easy single slope and depth control. Just pressure one button for slope and one for depth, and you are ready to work!
- Be your own surveyor and save money. You can check and mark you height, just by touching your point with the bucket.
- No more over excavations. With this precise system, you are sure only to remove the material that is needed.
- Get done in fewer passes. No need for "rework" – you will reach the desired slope and depths the first time!
- Altitude warning – audible warning on selected height, useful for overhead cables and working under bridges and inside buildings.

Performance

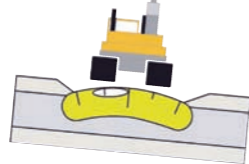
DEPTH



PLANNING WORK



ROLL



SLOPE



LASER REFERENCE



PITCH



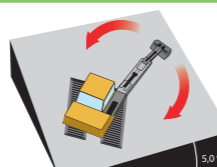
PIPE-LAYING



UNDER-WATER WORK



ROTATION SENSOR FUNCTION



- Dual slope and automatic level control – Don't worry about the position of your undercarriage, this systems automatically compensates for Tilt and Roll.
- Be able to excavate more accurately – The laser height control combined with the level control ensures that this system always works very precise on every surface!
- Height guiding by laser control – Using a rotating laser as a reference, you will always be able to "catch" your reference as you move along the site.
- Limit the cost for ground personnel – No need for grade checkers, touch your selected point and read the slope and depth in your display. Safe site work for the personnel!
- Altitude warning – audible warning on selected height, useful for overhead cables and working under bridges and inside buildings.
- Update possibilities to system: Advanced. Adding 3D (Gps) sensors and another Control Box to this system, you will be able to work with complex projects and 3D models.

Advanced

DEPTH



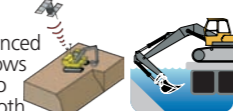
PLANNING WORK



ROLL



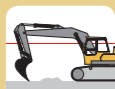
3D/GPS



SLOPE



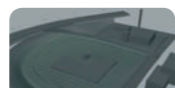
LASER REFERENCE



PITCH



UMC3D



PIPE-LAYING



UNDER-WATER WORK



ROTATION SENSOR FUNCTION



Toggle between 2D and 3D with the push of one button!

- Work without limitations – increase your machine productivity and reduce the dependency on site survey teams.
- Significant material savings – what is estimated is used!
- Create a greener site – reduced rework and increased productivity, fuel savings, fewer machine hours and job done quicker!
- Make complex projects simple – geometries, profiles and grades are done much faster than normally.
- Full payback on your investment can be achieved in one project.

System Components

S Standard system

P Performance system

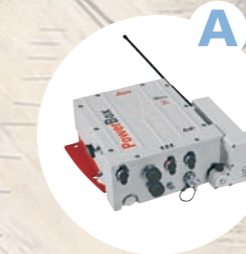
A Advanced system



Rotation sensor



PowerAntenna



PowerBox



Tilt sensor



Bucket sensor



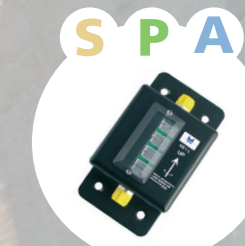
Removal light display



Junction box



Boom sensor



Stick sensor

XC12 Lite Control Box **S**
Easy and simple single slope control box with multicolor display. Graphical overview gives you information of the exact height and slope you have keyed in. All necessary buttons and functions are placed logical on the front.

XC14 Control Box **P**
Updated full 2D multicolor control box to be placed in a "PowerSnap" cradle. No cables need to be attached – just snap into place and set off. More features are added into this new 2D control box.

XC16 Control Box **P A**
The XC16 control box combines full 2D with full 3D in ONE box, adding 3D sensors provide full 3D, toggle between 2D and 3D with a simple touch of a button. 7" large graphic color touch screen with user friendly menus. Mounted in a "PowerSnap" cradle.

The PowerSnap Concept

- Unique patented snap-on & snap-off capability
- Contact free control/display
- Easy removal of core components for over-night security
- Fast and simple interchangeability between products and machines, 2D and 3D applications.
- Control box can easily be moved from excavator to dozer or grader

